



# СВАРНЫЕ ТРУБЫ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ

# STAINLESS STEEL WELDED TUBES

## СВАРНЫЕ ТРУБЫ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ

### DIMENSIONAL RANGE - АССОРТИМЕНТ РАЗМЕРОВ

MIN. OUTSIDE DIAMETER - МИН. ВНЕШНИЙ ДИАМЕТР 6 mm

MAX. OUTSIDE DIAMETER - МАКС. ВНЕШНИЙ ДИАМЕТР 406,4 mm

MIN. THICKNESS - МИН. ТОЛЩИНА 0,8 mm

MAX. THICKNESS - МАКС. ТОЛЩИНА 6 mm

Marcegaglia Specialties manufactures a wide range of the stainless steel welded tubes, which has led to the leading position in the production of stainless steel welded tubes. Thanks to the manufacturing processes carried out in Italy, Russia, Turkey and Brazil, Marcegaglia Specialties is the world's first producer of stainless welded tubes.

*Marcegaglia Specialties производит широкий ассортимент электросварных труб из нержавеющей стали, что позволило нам стать лидером в сфере производства электросварных труб из нержавеющей стали. Благодаря заводам в Италии, России, Турции и Бразилии компания Marcegaglia Specialties стала крупнейшим мировым производителем электросварных труб из нержавеющей стали.*

54 tube lines (13 HF, 33 Laser, 8 TIG)

260,000 t/y  
manufacturing capacity

## TYPICAL APPLICATIONS

ОСНОВНЫЕ ОБЛАСТИ ПРИМЕНЕНИЯ

### TUBES FOR MECHANICAL APPLICATIONS AND FOR CONSTRUCTIONS

ТРУБЫ ДЛЯ МАШИНОСТРОЕНИЯ  
И СТРОИТЕЛЬСТВА

Marcegaglia product range for mechanical applications comprises tubes for pumps and cylinders, tubes for elbows and fittings and tubes for heat resistances. Marcegaglia also supplies the building and constructions sector thanks to wide range of round tubes and box sections for structural uses.

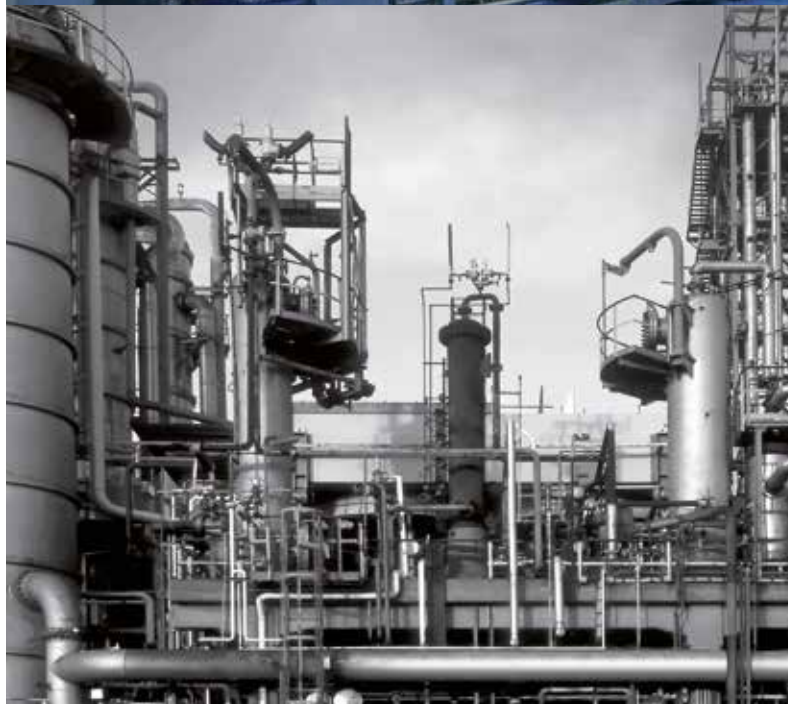
Ассортимент продукции Marcegaglia для машиностроения включает трубы для насосов и цилиндров, трубы для коленчатых патрубков и фитингов, а также для обеспечения термостойкости. Marcegaglia также снабжает строительный сектор широким ассортиментом труб круглого и коробчатого сечения для конструкционных элементов.

### PROCESS PIPES FOR FLUIDS

ТЕХНОЛОГИЧЕСКИЕ ТРУБЫ ДЛЯ ТЕКУЧИХ СРЕД

Marcegaglia process pipe range includes certified products for applications in the food and dairy industry, drinkable water, chemical and pharmaceutical, oil and gas, heat exchangers, electrical resistances and other mechanical applications.

Ассортимент труб Marcegaglia включает в себя трубы, сертифицированные для пищевой и молочной промышленности, питьевой воды, химической, фармацевтической и нефтегазовой промышленности, для теплообменников, электрических сопротивлений и для применения в других областях механики.



### FEEDWATER HEATER TUBES FOR POWER PLANTS

ТРУБЫ ПОДОГРЕВА ПИТАТЕЛЬНОЙ ВОДЫ  
ДЛЯ ЭНЕРГЕТИКИ

To meet the needs of the energy sector, Marcegaglia develops a range of tubes for heat exchangers, characterized by a particular resistance to temperature changes.

Для удовлетворения потребностей энергетики Marcegaglia разработала ассортимент труб для производства теплообменников, отличающихся высокой устойчивостью к колебаниям температуры.

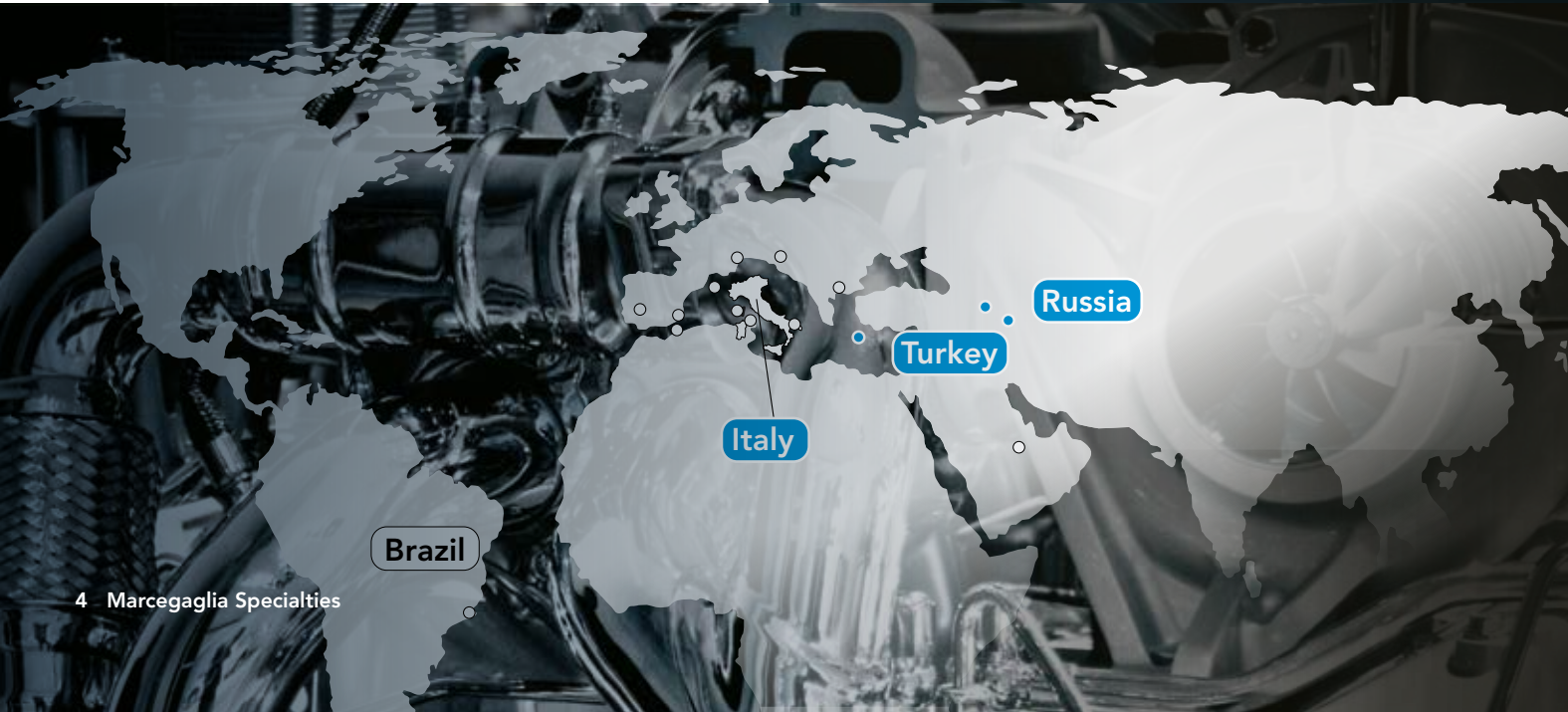
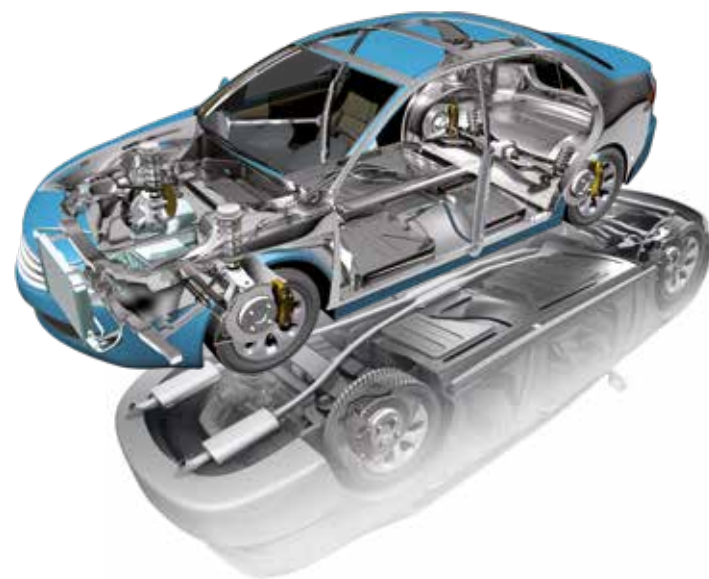


## TUBES FOR MECHANICAL AND AUTOMOTIVE APPLICATIONS

ТРУБЫ ДЛЯ ИСПОЛЬЗОВАНИЯ В МЕХАНИКЕ  
И АВТОМОБИЛЕСТРОЕНИИ

The product range of tubes for exhaust systems, tubes for hydroforming applications and special shapes for automotive construction is engineered and manufactured in Marcegaglia Specialties stainless steel production plants worldwide: Brazil, Russia, Turkey and Italy, hosting more than 70 high-technology tube processing lines.

Ассортимент трубной продукции для выхлопных систем, трубы для гидроформинга и специальные шаблоны для использования в автомобилестроении разрабатываются и производятся на металлургических заводах Marcegaglia Specialties во всем мире: в Бразилии, России, Турции и Италии. На этих заводах установлено более 70 высокотехнологичных линий для производства труб.



## CONSTRUCTION AND ORNAMENTAL TUBES

ТРУБЫ ДЛЯ СТРОИТЕЛЬСТВА  
И ДЕКОРИРОВАНИЯ

Building with steel means excellence. Mechanical properties, aesthetic values and durability: stainless steel is the environment-friendly material of choice for contemporary architecture.

Использование стали в строительстве - это выбор совершенства. Предлагая высокие механические характеристики, эстетические свойства и долговечность, нержавеющая сталь является экологическим и идеальным материалом для современного строительства.



MAIN MANUFACTURING STANDARDS

ОСНОВНЫЕ ПРОИЗВОДСТВЕННЫЕ СТАНДАРТЫ

| MANUFACTURING STANDARD                                             |                                                          | PRODUCT DESIGNATION                                         | GRADE EN | GRADE AISI |
|--------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------|----------|------------|
| Производственный Стандарт                                          |                                                          | Наименование Изделия                                        | Марка EN | Марка AISI |
| MECHANICAL APPLICATIONS<br>ПРИМЕНЕНИЕ В МЕХАНИКЕ                   | EN 10217-7<br>EN 10296-2                                 | Round tubes for pumps and cylinders                         | 1.4301   | 304        |
|                                                                    |                                                          | Трубы круглого сечения для насосов и цилиндров              | 1.4307   | 304L       |
|                                                                    |                                                          |                                                             | 1.4404   | 316L       |
|                                                                    |                                                          |                                                             | 1.4541   | 321        |
|                                                                    |                                                          |                                                             | 1.4571   | 316Ti      |
|                                                                    | EN 10217-7                                               | Round tubes for elbows and fittings                         | 1.4307   | 304L       |
|                                                                    |                                                          | Трубы круглого сечения для фитингов и угольников            | 1.4404   | 316L       |
|                                                                    |                                                          |                                                             | 1.4541   | 321        |
|                                                                    |                                                          |                                                             | 1.4571   | 316Ti      |
|                                                                    | EN 10217-7                                               | Round tubes for heat resistances                            | 1.4307   | 304L       |
|                                                                    |                                                          | Трубы круглого сечения для нагревательных элементов         | 1.4404   | 316L       |
|                                                                    |                                                          |                                                             | 1.4541   | 321        |
| 1.4571                                                             |                                                          |                                                             | 316Ti    |            |
| 1.4876                                                             |                                                          |                                                             |          |            |
| 2.4858                                                             |                                                          |                                                             |          |            |
| CONSTRUCTION<br>СТРОИТЕЛЬСТВО                                      | EN 10296-2 (round only)<br>(только для круглого сечения) | Construction round tubes and box sections                   | 1.4301   | 304        |
|                                                                    |                                                          | Трубы круглого и фасонного сечения для строительства        | 1.4307   | 304L       |
|                                                                    |                                                          |                                                             | 1.4404   | 316L       |
|                                                                    |                                                          |                                                             | 1.4541   | 321        |
|                                                                    | ASTM A554                                                |                                                             | 1.4571   | 316Ti      |
|                                                                    |                                                          |                                                             | 1.4509   | 441        |
|                                                                    |                                                          |                                                             | 1.4510   | 439L       |
|                                                                    |                                                          |                                                             |          |            |
| PROCESS PIPES FOR FLUIDS<br>ТЕХНОЛОГИЧЕСКИЕ ТРУБЫ ДЛЯ ТЕКУЩИХ СРЕД | EN 10217-7<br>EN 10357<br>ASTM A270                      | Process pipes for the food and dairy industry               | 1.4307   | 304L       |
|                                                                    |                                                          | Технологические трубы для пищевой и молочной промышленности | 1.4404   | 316L       |
|                                                                    | EN 10217-7<br>DVGW GW541                                 | Process pipes for drinkable water and press fitting         | 1.4404   | 316L       |
|                                                                    |                                                          | Технологические трубы для питьевой воды и пресс-фитинга     | 1.4521   | 444        |
|                                                                    | EN 10217-7<br>EN 10312                                   | Process pipes for water treatment                           | 1.4307   | 304L       |
|                                                                    |                                                          | Технологические трубы для обработки воды                    | 1.4404   | 316L       |
|                                                                    |                                                          |                                                             | 1.4541   | 321        |
|                                                                    |                                                          |                                                             | 1.4571   | 316Ti      |
|                                                                    | EN 10217-7                                               | Process pipes for the pulp and paper sector                 | 1.4307   | 304L       |
|                                                                    |                                                          | Технологические трубы для бумажной промышленности           | 1.4404   | 316L       |
|                                                                    |                                                          |                                                             | 1.4541   | 321        |
|                                                                    |                                                          |                                                             | 1.4571   | 316Ti      |
|                                                                    | EN 10217-7<br>AD 2000 W2/W10<br>PED 2014/68/EU           | Process pipes for chemical applications                     | 1.4307   | 304L       |
|                                                                    |                                                          | Технологические трубы для химической промышленности         | 1.4404   | 316L       |
|                                                                    |                                                          |                                                             | 1.4541   | 321        |
|                                                                    |                                                          |                                                             | 1.4571   | 316Ti      |
|                                                                    |                                                          |                                                             | 1.4162   | 2101       |
|                                                                    |                                                          |                                                             | 1.4362   | 2304       |
|                                                                    |                                                          |                                                             | 1.4462   | 2205       |
|                                                                    | EN 10217-7<br>DIN 11866                                  | Process pipes for pharmaceutical applications               | 1.4404   | 316L       |
|                                                                    |                                                          | Технологические трубы для фармацевтической промышленности   |          |            |
|                                                                    | EN 10217-7<br>ASTM A312/A778                             | Process pipes for oil and gas applications                  | 1.4307   | 304L       |
|                                                                    |                                                          | Технологические трубы для нефтегазовой промышленности       | 1.4404   | 316L       |
|                                                                    |                                                          |                                                             | 1.4362   | 2304       |
| 1.4462                                                             |                                                          |                                                             | 2205     |            |

|                                          |                                                                                       |                                                                                                                                                  |                                                                                                 |        |       |
|------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|--------|-------|
| HEAT TREATMENT<br>ТЕПЛООБМЕННЫЕ ПРОЦЕССЫ | ASTM A803<br>A803M                                                                    | Ferritic feedwater heater tubes<br>Трубы подогревателя питающей воды из ферритной стали                                                          | 1.4512                                                                                          | 409LI  |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4510                                                                                          | 439L   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4509                                                                                          | 441    |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4301                                                                                          | 304    |       |
|                                          | ASTM A688<br>A688M                                                                    | Austenitic feedwater heater tubes<br>Трубы подогревателя питающей воды из аустенитной стали                                                      | 1.4307                                                                                          | 304L   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4404                                                                                          | 316L   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4541                                                                                          | 321    |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4571                                                                                          | 316Ti  |       |
|                                          | EN 10217-7<br>ASTM A249<br>AD 2000 W2/W10<br>PED 2014/68/EU                           | Round tubes for heat exchangers<br>Трубы круглого сечения для теплообменников                                                                    | 1.4162                                                                                          | 2101   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4362                                                                                          | 2304   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4462                                                                                          | 2205   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4301                                                                                          | 304    |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4307                                                                                          | 304L   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4404                                                                                          | 316L   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4541                                                                                          | 321    |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4571                                                                                          | 316Ti  |       |
|                                          | EN 10296-2<br>EN 10217-7                                                              | Round tubes for evaporators for the sugar industry<br>Трубы круглого сечения для испарителей в сахарной промышленности                           | 1.4509                                                                                          | 441    |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4512                                                                                          | 409LI  |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4510                                                                                          | 439L   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4162                                                                                          | 2101   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4362                                                                                          | 2304   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4462                                                                                          | 2205   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4307                                                                                          | 304L   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4307                                                                                          | 304L   |       |
| EN 10217-7<br>AD 2000 W2/W10             | Round tubes for pressure vessels<br>Трубы круглого сечения для емкостей под давлением | 1.4404                                                                                                                                           | 316L                                                                                            |        |       |
|                                          |                                                                                       | 1.45241                                                                                                                                          | 321                                                                                             |        |       |
|                                          |                                                                                       | 1.4571                                                                                                                                           | 316Ti                                                                                           |        |       |
|                                          |                                                                                       | 1.4162                                                                                                                                           | 2101                                                                                            |        |       |
|                                          |                                                                                       | 1.4362                                                                                                                                           | 2304                                                                                            |        |       |
|                                          |                                                                                       | 1.4462                                                                                                                                           | 2205                                                                                            |        |       |
| EN 10217-7                               | Tubes for boilers<br>Трубы для котлов                                                 | 1.4307                                                                                                                                           | 304L                                                                                            |        |       |
|                                          |                                                                                       | 1.4404                                                                                                                                           | 316L                                                                                            |        |       |
|                                          |                                                                                       | 1.4541                                                                                                                                           | 321                                                                                             |        |       |
|                                          |                                                                                       | 1.4571                                                                                                                                           | 316Ti                                                                                           |        |       |
|                                          |                                                                                       | 1.4162                                                                                                                                           | 2101                                                                                            |        |       |
|                                          |                                                                                       | 1.4362                                                                                                                                           | 2304                                                                                            |        |       |
| AUTOMOTIVE<br>АВТОМОБИЛЕСТРОЕНИЕ         | EN 10296-2<br>ASTM A554                                                               | Round tubes for automotive, exhaust systems<br>Трубы круглого сечения для использования в автомобилестроении, выхлопные системы                  | 1.4462                                                                                          | 2205   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4362                                                                                          | 2304   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4162                                                                                          | 2101   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4571                                                                                          | 316Ti  |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4512                                                                                          | 409LI  |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4541                                                                                          | 321    |       |
|                                          | EN 10296-2<br>ASTM A554                                                               | Round tubes for automotive, hydroforming appliance<br>Трубы круглого сечения для использования в автомобилестроении, гидроформинг                | 1.4510                                                                                          | 439L   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4509                                                                                          | 441    |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4512                                                                                          | 409LI  |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4571                                                                                          | 316Ti  |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4541                                                                                          | 321    |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4404                                                                                          | 316L   |       |
|                                          | EN 10296-2 (round only)<br>(только для круглого сечения)<br>ASTM A554                 | Round tubes and box sections for automotive frame construction<br>Трубы круглого и фасонного сечения для изготовления шасси в автомобилестроении | 1.4307                                                                                          | 304L   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4301                                                                                          | 304    |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4003                                                                                          |        |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4510                                                                                          | 439L   |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4509                                                                                          | 441    |       |
|                                          |                                                                                       |                                                                                                                                                  | 1.4404                                                                                          | 316L   |       |
|                                          | ORNAMENTAL<br>ДЕКОРИРОВАНИЕ                                                           | EN 10296-2 (round only)<br>(только для круглого сечения)<br>ASTM A554                                                                            | Ornamental round tubes and box sections<br>Трубы круглого и фасонного сечения для декорирования | 1.4521 | 444   |
|                                          |                                                                                       |                                                                                                                                                  |                                                                                                 | 1.4510 | 439L  |
|                                          |                                                                                       |                                                                                                                                                  |                                                                                                 | 1.4509 | 441   |
|                                          |                                                                                       |                                                                                                                                                  |                                                                                                 | 1.4571 | 316Ti |
|                                          |                                                                                       |                                                                                                                                                  |                                                                                                 | 1.4541 | 321   |
|                                          |                                                                                       |                                                                                                                                                  |                                                                                                 | 1.4404 | 316L  |
| 1.4307                                   |                                                                                       |                                                                                                                                                  |                                                                                                 | 304L   |       |
| 1.4301                                   |                                                                                       |                                                                                                                                                  |                                                                                                 | 304    |       |
| 1.4521                                   |                                                                                       |                                                                                                                                                  |                                                                                                 | 444    |       |
| 1.4510                                   |                                                                                       |                                                                                                                                                  |                                                                                                 | 439L   |       |

|                                                                                                                        |                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Supply conditions - Условия поставки                                                                                   |                                                                                                                                                                                                                     |
| - Dimensional tolerances according to manufacturing standard<br>Размерные допуски согласно производственным стандартам | - Control documents 2.2, 3.1, 3.2* according to EN 10204 and specific norm requirements<br>Документы приемочного контроля 2.2, 3.1, 3.2 согласно стандарту EN 10204, а также отдельным положениям каждого стандарта |
| - Special tolerances upon request<br>Специальные допуски по заказу                                                     | (*) Upon request По запросу                                                                                                                                                                                         |

MAIN STEEL GRADES  
ОСНОВНЫЕ МАРКИ СТАЛИ

| METAL<br>STRUC-<br>TURE<br><div>Структура<br/>металла</div> | GRADE<br><div>Марка</div> |                      | INDICATIVE CHEMICAL COMPOSITION<br><div>Типовой химический состав</div> |             |             |            |                         |                     |           |           |         |         |           |           |                     |
|-------------------------------------------------------------|---------------------------|----------------------|-------------------------------------------------------------------------|-------------|-------------|------------|-------------------------|---------------------|-----------|-----------|---------|---------|-----------|-----------|---------------------|
|                                                             | EN                        | AISI                 | C                                                                       | Ni          | Cr          | Mo         | Ti                      | Nb                  | Mn        | Si        | P       | S       | N         | Cu        | Others              |
| Austenitic                                                  | 1.4301                    | 304                  | ≤ 0,07                                                                  | 8,00-10,50  | 17,00-19,50 | -          | -                       | -                   | ≤ 2,00    | ≤ 1,00    | ≤ 0,045 | ≤ 0,015 | ≤ 0,10    | -         | -                   |
| Austenitic                                                  | 1.4307                    | 304L                 | ≤ 0,03                                                                  | 8,00-10,00  | 17,50-19,50 | -          |                         | -                   | ≤ 2,00    | ≤ 1,00    | ≤ 0,045 | ≤ 0,015 | ≤ 0,10    | -         | -                   |
| Austenitic                                                  | 1.4541                    | 321                  | ≤ 0,08                                                                  | 9,00-12,00  | 17,00-19,00 | -          | 5xC-0,70                | -                   | ≤ 2,00    | ≤ 1,00    | ≤ 0,045 | ≤ 0,015 | -         | -         | -                   |
| Austenitic                                                  | 1.4404                    | 316L                 | ≤ 0,03                                                                  | 10,00-13,00 | 16,50-18,50 | 2,00-2,50  | -                       | -                   | ≤ 2,00    | ≤ 1,00    | ≤ 0,045 | ≤ 0,015 | ≤ 0,10    | -         | -                   |
| Austenitic                                                  | 1.4571                    | 316Ti                | ≤ 0,08                                                                  | 10,50-13,50 | 16,50-18,50 | 2,00-2,50  | 5xC-0,70                | -                   | ≤ 2,00    | ≤ 1,00    | ≤ 0,045 | ≤ 0,015 | -         | -         | -                   |
| Austenitic                                                  | 1.4449                    | 317                  | ≤ 0,08                                                                  | 11,00-15,00 | 18,00-20,00 | 3,00-4,00  | -                       | -                   | ≤ 2,00    | ≤ 0,75    | ≤ 0,045 | ≤ 0,030 | ≤ 0,10    | -         | -                   |
| Austenitic                                                  | 1.4438                    | 317L                 | ≤ 0,03                                                                  | 11,00-15,00 | 18,00-20,00 | 3,00-4,00  | -                       | -                   | ≤ 2,00    | ≤ 0,75    | ≤ 0,045 | ≤ 0,030 | ≤ 0,10    | -         | -                   |
| Austenitic                                                  | 1.4828                    | 309                  | ≤ 0,20                                                                  | 12,00-15,00 | 22,00-24,00 | -          | -                       | -                   | ≤ 2,00    | ≤ 1,00    | ≤ 0,045 | ≤ 0,030 | -         | -         | -                   |
| Austenitic                                                  | 1.4833                    | 309S                 | ≤ 0,20                                                                  | 11,00-13,00 | 19,00-21,00 | -          | -                       | -                   | ≤ 2,00    | 1,50-2,50 | ≤ 0,045 | ≤ 0,030 | -         | -         | -                   |
| Austenitic                                                  | 1.4845                    | 310                  | ≤ 0,08                                                                  | 19,00-22,00 | 24,00-26,00 | ≤ 0,75     | -                       | -                   | ≤ 2,00    | ≤ 1,50    | ≤ 0,045 | ≤ 0,030 | -         | -         | -                   |
| Austenitic                                                  | 1.4833                    | 310S                 | ≤ 0,08                                                                  | 19,00-22,00 | 24,00-26,00 | -          | -                       | -                   | ≤ 2,00    | ≤ 1,50    | ≤ 0,045 | ≤ 0,030 | -         | -         | -                   |
| Austenitic                                                  | 1.4371                    | 201LN                | ≤ 0,030                                                                 | 3,50-5,50   | 16,00-17,00 | -          | -                       | -                   | 6,00-8,00 | ≤ 1,00    | ≤ 0,045 | ≤ 0,015 | 0,15-0,20 | -         | -                   |
| Austenitic                                                  | 1.4550                    | 347                  | ≤ 0,08                                                                  | 9,00-13,00  | 17,00-19,00 | -          | -                       | -                   | ≤ 2,00    | ≤ 0,75    | ≤ 0,045 | ≤ 0,030 | -         | -         | Cb 10xC min         |
| Austenitic                                                  | 1.4961                    | 347H                 | 0,04-0,10                                                               | 9,00-13,00  | 17,00-19,00 | -          | -                       | -                   | ≤ 2,00    | ≤ 0,75    | ≤ 0,045 | ≤ 0,030 | -         | -         | Cb 8xC min          |
| Austenitic                                                  | 1.4541                    | 321                  | ≤ 0,08                                                                  | 9,00-12,00  | 17,00-19,00 | -          | 5xC-0,70                | -                   | ≤ 2,00    | ≤ 1,00    | ≤ 0,045 | ≤ 0,015 | -         | -         | -                   |
| Austenitic                                                  |                           | 254SMO               | ≤ 0,02                                                                  | 17,50-18,50 | 19,50-20,50 | 6,00-6,50  | -                       | -                   | ≤ 1,00    | ≤ 0,80    | ≤ 0,030 | ≤ 1,01  | 0,18-0,22 | 0,50-1,00 | -                   |
| Ni Alloy                                                    | 2.4816                    | Inconel 600          | ≤ 0,15                                                                  | ≥ 72,00     | 14,70-17,00 | -          | -                       | -                   | ≤ 1,00    | ≤ 0,50    | -       | ≤ 0,015 | -         | ≤ 0,50    | -                   |
| Ni Alloy                                                    | 2.4851                    | Inconel 601          | ≤ 0,10                                                                  | 58,00-63,00 | 21,00-25,00 | -          | -                       | -                   | ≤ 1,00    | ≤ 0,50    | -       | ≤ 0,015 | -         | ≤ 1,00    | -                   |
| Ni Alloy                                                    | 2.4856                    | Inconel 625          | ≤ 0,10                                                                  | ≥ 58,00     | 20,00-23,00 | 8,00-10,00 | ≤ 0,40                  | 3,15-4,15           | ≤ 0,50    | ≤ 0,50    | ≤ 0,015 | ≤ 0,015 | -         | -         | Al ≤ 0,40, Co ≤ 1,0 |
| Ni Alloy                                                    | 2.4558                    | 825                  | ≤ 0,05                                                                  | 38,00-46,00 | 19,50-23,50 | 2,50-3,50  | 0,60-1,20               | -                   | ≤ 1,00    | ≤ 0,50    | -       | ≤ 0,030 | -         | 1,50-3,00 | Al ≤ 0,20           |
| Super Austenitic                                            | 1.4876                    | Incoloy 800          | ≤ 0,10                                                                  | 30,00-35,00 | 19,00-23,00 | -          | 0,15-0,60               | -                   | ≤ 1,50    | ≤ 1,00    | -       | ≤ 0,015 | -         | ≤ 0,75    | Al 0,15-0,60        |
| Super Austenitic                                            |                           | AL6XN                | ≤ 0,03                                                                  | 23,50-25,50 | 20,00-22,00 | 6,00-7,00  | -                       | -                   | ≤ 2,00    | ≤ 1,00    | ≤ 0,040 | ≤ 0,030 | 0,18-0,25 | ≤ 0,75    | -                   |
| Super Austenitic                                            | 1.4529                    | Incoloy alloy 25-6MO | ≤ 0,02                                                                  | 24,00-26,00 | 19,00-21,00 | 6,00-7,00  | -                       | -                   | ≤ 2,00    | ≤ 0,50    | ≤ 0,030 | ≤ 0,010 | 0,15-0,25 | 0,50-1,50 | -                   |
| Super Austenitic                                            |                           | 904LV                | ≤ 0,02                                                                  | 23,00-28,00 | 19,00-23,00 | 4,00-5,00  | -                       | -                   | ≤ 2,00    | ≤ 1,00    | ≤ 0,045 | ≤ 0,035 | -         | 1,00-2,00 | -                   |
| Nickel Base                                                 | 2.4858                    | Incoloy 825          | ≤ 0,05                                                                  | 38,00-46,00 | 19,50-23,50 | 2,50-3,50  | 0,60-1,20               | -                   | ≤ 1,00    | ≤ 0,50    | -       | ≤ 0,030 | -         | 1,50-3,00 | Al ≤ 0,20           |
| Ferritic                                                    | 1.4512                    | 409                  | ≤ 0,08                                                                  | ≤ 0,50      | 10,50-11,75 | -          | ≥ 6xC                   | -                   | ≤ 1,00    | ≤ 1,00    | ≤ 0,045 | ≤ 0,045 | -         | -         | -                   |
| Ferritic                                                    | 1.4512                    | 409LI                | ≤ 0,03                                                                  | -           | 10,50-12,50 | -          | -                       | -                   | ≤ 1,00    | ≤ 1,00    | ≤ 0,040 | ≤ 0,015 |           | -         | -                   |
| Ferritic                                                    | 1.4016                    | 430                  | ≤ 0,12                                                                  | ≤ 0,75      | 16,00-18,00 | -          | -                       | -                   | ≤ 1,00    | ≤ 1,00    | ≤ 0,040 | ≤ 0,030 | -         | -         | -                   |
| Ferritic                                                    | 1.4520                    | 430Ti                | ≤ 0,07                                                                  | ≤ 0,50      | 17,00-19,00 | -          | 0,20+4(C+N)             | -                   | ≤ 1,00    | ≤ 1,00    | ≤ 0,040 | ≤ 0,030 | ≤ 0,04    | -         | -                   |
| Ferritic                                                    | 1.4510                    | 439                  | ≤ 0,03                                                                  | ≤ 0,50      | 17,00-19,00 | -          | 0,20+4(C+N)             | -                   | ≤ 1,00    | ≤ 1,00    | ≤ 0,040 | ≤ 0,030 | -         | -         | -                   |
| Ferritic                                                    | 1.4510                    | 439L                 | ≤ 0,050                                                                 | -           | 16,00-18,00 | -          | [4x(C+N)+0,15]<br>-0,80 | -                   | ≤ 1,00    | ≤ 1,00    | ≤ 0,040 | ≤ 0,015 | -         | -         | -                   |
| Ferritic                                                    | 1.4509                    | 441                  | ≤ 0,03                                                                  | -           | 17,50-18,50 | -          | 0,10-0,60               | [3xC+0,30]<br>-1,00 | ≤ 1,00    | ≤ 1,00    | ≤ 0,040 | ≤ 0,015 | -         | -         | -                   |
| Ferritic                                                    | 1.4521                    | 444                  | ≤ 0,025                                                                 | -           | 17,00-20,00 | 1,80-2,50  | [4x(C+N)+0,15]<br>-0,80 | -                   | ≤ 1,00    | ≤ 1,00    | ≤ 0,040 | ≤ 0,015 | ≤ 0,030   | -         | -                   |
| Lean Duplex*                                                | 1.4162                    | S32101               | ≤ 0,04                                                                  | 1,35-1,70   | 21,00-22,00 | 0,10-0,80  | -                       | -                   | 4,00-6,00 | ≤ 1,00    | ≤ 0,040 | ≤ 0,030 | 0,20-0,25 | -         | -                   |
| Duplex                                                      | 1.4362                    | 2304                 | ≤ 0,030                                                                 | 3,50-5,50   | 22,00-24,00 | 0,10-0,60  | -                       | -                   | ≤ 2,00    | ≤ 1,00    | ≤ 0,035 | ≤ 0,015 | 0,05-0,20 | 0,10-0,60 | -                   |
| Duplex                                                      | 1.4462                    | 2205                 | ≤ 0,030                                                                 | 4,50-6,50   | 21,00-23,00 | 2,50-3,50  | -                       | -                   | ≤ 2,00    | ≤ 1,00    | ≤ 0,035 | ≤ 0,015 | 0,10-0,22 | -         | -                   |
| Duplex                                                      |                           | AL 2003              | ≤ 0,03                                                                  | 3,00-4,00   | 19,50-22,50 | 1,50-2,00  | -                       | -                   | ≤ 2,00    | ≤ 1,00    | ≤ 0,030 | ≤ 0,020 | 0,14-0,20 | -         | -                   |
| Duplex                                                      | 1.4162                    | LDX2101              | ≤ 0,04                                                                  | 1,35-1,70   | 21,00-22,00 | 0,10-0,80  | -                       | -                   | 4,00-6,00 | ≤ 1,00    | ≤ 0,040 | ≤ 0,030 | 0,20-0,25 | -         | -                   |
| Duplex                                                      | 1.4410                    | 2507                 | ≤ 0,03                                                                  | 6,00-8,00   | 24,00-26,00 | 3,00-5,00  | -                       | -                   | ≤ 1,20    | ≤ 0,80    | ≤ 0,035 | ≤ 0,020 | 0,24-0,32 | ≤ 0,50    | -                   |

(\*) Outokumpu LDX 2101, Allegheny AL 2003



weight kg/m  
вес кг/м

ROUND TUBES

Трубы круглого сечения

EN 10217-7

EN 10296-2

| outside diameter<br>наружный диаметр<br>mm | wall thickness толщина стенки mm |       |       |       |       |       |       |       |       |       |       |        |        |        |
|--------------------------------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
|                                            | 0,80                             | 1     | 1,2   | 1,5   | 1,6   | 2     | 2,5   | 2,6   | 3     | 3,2   | 3,6   | 4      | 5      | 6      |
| 6                                          |                                  | 0,125 |       |       |       |       |       |       |       |       |       |        |        |        |
| 8                                          | 0,144                            | 0,175 |       |       |       |       |       |       |       |       |       |        |        |        |
| 10                                         | 0,184                            | 0,225 | 0,264 | 0,319 |       |       |       |       |       |       |       |        |        |        |
| 12                                         | 0,224                            | 0,275 | 0,325 | 0,394 | 0,417 | 0,501 |       |       |       |       |       |        |        |        |
| 12,7                                       | 0,238                            | 0,293 | 0,346 | 0,421 | 0,445 |       |       |       |       |       |       |        |        |        |
| 14                                         | 0,264                            | 0,326 | 0,385 | 0,470 | 0,497 | 0,601 |       |       |       |       |       |        |        |        |
| 15                                         | 0,284                            | 0,351 | 0,415 | 0,507 | 0,537 | 0,651 |       |       |       |       |       |        |        |        |
| 16                                         | 0,304                            | 0,376 | 0,445 | 0,545 | 0,577 | 0,701 |       |       |       |       |       |        |        |        |
| 17,2                                       | 0,329                            | 0,406 | 0,481 | 0,590 | 0,625 | 0,761 | 0,920 | 0,951 | 1,067 |       |       |        |        |        |
| 18                                         | 0,345                            | 0,426 | 0,505 | 0,620 | 0,657 | 0,801 | 0,970 | 1,003 | 1,127 |       |       |        |        |        |
| 19                                         | 0,365                            | 0,451 | 0,535 | 0,657 | 0,697 | 0,851 | 1,033 | 1,068 | 1,202 |       |       |        |        |        |
| 19,05                                      | 0,366                            | 0,452 | 0,536 | 0,659 | 0,699 | 0,854 | 1,036 | 1,071 | 1,206 |       |       |        |        |        |
| 20                                         | 0,385                            | 0,476 | 0,565 | 0,695 | 0,737 | 0,901 | 1,096 | 1,133 | 1,277 |       |       |        |        |        |
| 21,3                                       | 0,411                            | 0,508 | 0,604 | 0,744 | 0,789 | 0,967 | 1,177 | 1,217 | 1,375 |       |       |        |        |        |
| 22                                         | 0,425                            | 0,526 | 0,625 | 0,770 | 0,817 | 1,002 | 1,221 | 1,263 | 1,427 |       |       |        |        |        |
| 23                                         | 0,445                            | 0,551 | 0,655 | 0,808 | 0,857 | 1,052 | 1,283 | 1,328 | 1,502 |       |       |        |        |        |
| 24                                         | 0,465                            | 0,576 | 0,685 | 0,845 | 0,897 | 1,102 | 1,346 | 1,393 | 1,578 |       |       |        |        |        |
| 25                                         | 0,485                            | 0,601 | 0,715 | 0,883 | 0,937 | 1,152 | 1,409 | 1,458 | 1,653 |       |       |        |        |        |
| 25,4                                       | 0,493                            | 0,611 | 0,727 | 0,898 | 0,954 | 1,172 | 1,434 | 1,484 | 1,683 |       |       |        |        |        |
| 26,9                                       | 0,523                            | 0,649 | 0,772 | 0,954 | 1,014 | 1,247 | 1,527 | 1,582 | 1,795 |       |       |        |        |        |
| 28                                         | 0,545                            | 0,676 | 0,805 | 0,995 | 1,058 | 1,302 | 1,596 | 1,654 | 1,878 |       |       |        |        |        |
| 29                                         | 0,565                            | 0,701 | 0,835 | 1,033 | 1,098 | 1,352 | 1,659 | 1,719 | 1,953 |       |       |        |        |        |
| 30                                         | 0,585                            | 0,726 | 0,865 | 1,070 | 1,138 | 1,402 | 1,722 | 1,784 | 2,028 |       |       |        |        |        |
| 31,80                                      | 0,621                            | 0,771 | 0,919 | 1,138 | 1,210 | 1,492 | 1,834 | 1,901 | 2,163 |       |       |        |        |        |
| 32                                         | 0,625                            | 0,776 | 0,925 | 1,146 | 1,218 | 1,502 | 1,847 | 1,914 | 2,178 |       |       |        |        |        |
| 33                                         | 0,645                            | 0,801 | 0,956 | 1,183 | 1,258 | 1,552 | 1,909 | 1,979 | 2,254 |       |       |        |        |        |
| 33,7                                       | 0,659                            | 0,819 | 0,977 | 1,209 | 1,286 | 1,588 | 1,953 | 2,025 | 2,306 | 2,444 |       |        |        |        |
| 34                                         | 0,665                            | 0,826 | 0,986 | 1,221 | 1,298 | 1,603 | 1,972 | 2,044 | 2,329 | 2,468 |       |        |        |        |
| 35                                         | 0,685                            | 0,851 | 1,016 | 1,258 | 1,338 | 1,653 | 2,035 | 2,109 | 2,404 | 2,548 |       |        |        |        |
| 38                                         | 0,745                            | 0,926 | 1,106 | 1,371 | 1,458 | 1,803 | 2,222 | 2,305 | 2,629 | 2,788 | 3,101 | 3,405  |        |        |
| 40                                         | 0,785                            | 0,977 | 1,166 | 1,446 | 1,538 | 1,903 | 2,348 | 2,435 | 2,779 | 2,949 | 3,281 | 3,606  |        |        |
| 41                                         |                                  | 1,002 | 1,196 | 1,484 | 1,579 | 1,953 | 2,410 | 2,500 | 2,855 | 3,029 | 3,371 | 3,706  |        |        |
| 42                                         |                                  | 1,027 | 1,226 | 1,521 | 1,619 | 2,003 | 2,473 | 2,565 | 2,930 | 3,109 | 3,462 | 3,806  |        |        |
| 42,4                                       |                                  | 1,037 | 1,238 | 1,536 | 1,635 | 2,023 | 2,498 | 2,591 | 2,960 | 3,141 | 3,498 | 3,846  |        |        |
| 43                                         |                                  | 1,052 | 1,256 | 1,559 | 1,659 | 2,053 | 2,535 | 2,630 | 3,005 | 3,189 | 3,552 | 3,906  |        |        |
| 44,5                                       |                                  | 1,089 | 1,301 | 1,615 | 1,719 | 2,128 | 2,629 | 2,728 | 3,117 | 3,309 | 3,687 | 4,056  |        |        |
| 45                                         |                                  | 1,102 | 1,316 | 1,634 | 1,739 | 2,153 | 2,661 | 2,760 | 3,155 | 3,349 | 3,732 | 4,107  |        |        |
| 48                                         |                                  | 1,177 | 1,406 | 1,747 | 1,859 | 2,304 | 2,848 | 2,956 | 3,380 | 3,590 | 4,002 | 4,407  |        |        |
| 48,3                                       |                                  | 1,184 | 1,415 | 1,758 | 1,871 | 2,319 | 2,867 | 2,975 | 3,403 | 3,614 | 4,029 | 4,437  |        |        |
| 50                                         |                                  | 1,227 | 1,466 | 1,822 | 1,939 | 2,404 | 2,974 | 3,086 | 3,531 | 3,750 | 4,183 | 4,607  |        |        |
| 50,8                                       |                                  | 1,247 | 1,490 | 1,852 | 1,971 | 2,444 | 3,024 | 3,138 | 3,591 | 3,814 | 4,255 | 4,687  |        |        |
| 51                                         |                                  | 1,252 | 1,496 | 1,859 | 1,979 | 2,454 | 3,036 | 3,151 | 3,606 | 3,830 | 4,273 | 4,708  |        |        |
| 52                                         |                                  | 1,277 | 1,526 | 1,897 | 2,019 | 2,504 | 3,099 | 3,216 | 3,681 | 3,910 | 4,363 | 4,808  |        |        |
| 53                                         |                                  | 1,302 | 1,556 | 1,934 | 2,059 | 2,554 | 3,161 | 3,281 | 3,756 | 3,990 | 4,453 | 4,908  |        |        |
| 54                                         |                                  | 1,327 | 1,587 | 1,972 | 2,099 | 2,604 | 3,224 | 3,346 | 3,831 | 4,071 | 4,543 | 5,008  |        |        |
| 55                                         |                                  | 1,352 | 1,617 | 2,009 | 2,139 | 2,654 | 3,287 | 3,411 | 3,906 | 4,151 | 4,633 | 5,108  |        |        |
| 57                                         |                                  | 1,402 | 1,677 | 2,085 | 2,220 | 2,754 | 3,412 | 3,542 | 4,056 | 4,311 | 4,814 | 5,308  |        |        |
| 60,3                                       |                                  | 1,485 | 1,776 | 2,209 | 2,352 | 2,920 | 3,618 | 3,757 | 4,304 | 4,575 | 5,111 | 5,639  | 6,924  |        |
| 63,5                                       |                                  | 1,565 | 1,872 | 2,329 | 2,480 | 3,080 | 3,819 | 3,965 | 4,545 | 4,832 | 5,400 | 5,960  | 7,324  |        |
| 70                                         |                                  | 1,728 | 2,067 | 2,573 | 2,740 | 3,405 | 4,226 | 4,388 | 5,033 | 5,353 | 5,986 | 6,611  | 8,138  |        |
| 73                                         |                                  | 1,803 | 2,157 | 2,686 | 2,861 | 3,556 | 4,413 | 4,583 | 5,258 | 5,593 | 6,256 | 6,911  | 8,514  |        |
| 76,1                                       |                                  | 1,881 | 2,251 | 2,802 | 2,985 | 3,711 | 4,607 | 4,785 | 5,491 | 5,841 | 6,535 | 7,222  | 8,902  |        |
| 80                                         |                                  | 1,978 | 2,368 | 2,948 | 3,141 | 3,906 | 4,852 | 5,039 | 5,784 | 6,154 | 6,887 | 7,612  | 9,390  |        |
| 83                                         |                                  | 2,053 | 2,458 | 3,061 | 3,261 | 4,056 | 5,039 | 5,234 | 6,010 | 6,394 | 7,157 | 7,913  | 9,766  |        |
| 84                                         |                                  | 2,078 | 2,488 | 3,099 | 3,301 | 4,107 | 5,102 | 5,299 | 6,085 | 6,474 | 7,248 | 8,013  | 9,891  |        |
| 85                                         |                                  | 2,103 | 2,518 | 3,136 | 3,341 | 4,157 | 5,165 | 5,365 | 6,160 | 6,554 | 7,338 | 8,113  | 10,016 |        |
| 88,9                                       |                                  |       | 2,635 | 3,283 | 3,498 | 4,352 | 5,409 | 5,618 | 6,453 | 6,867 | 7,689 | 8,504  | 10,504 |        |
| 95                                         |                                  |       |       | 3,512 | 3,742 | 4,657 | 5,791 | 6,016 | 6,911 | 7,356 | 8,239 | 9,115  | 11,268 |        |
| 101,6                                      |                                  |       |       | 3,760 | 4,006 | 4,988 | 6,204 | 6,445 | 7,407 | 7,885 | 8,834 | 9,776  | 12,094 |        |
| 103                                        |                                  |       |       | 3,812 | 4,062 | 5,058 | 6,291 | 6,536 | 7,512 | 7,997 | 8,960 | 9,916  | 12,270 |        |
| 104                                        |                                  |       |       | 3,850 | 4,103 | 5,108 | 6,354 | 6,602 | 7,587 | 8,077 | 9,050 | 10,016 | 12,395 |        |
| 108                                        |                                  |       |       | 4,000 | 4,263 | 5,308 | 6,604 | 6,862 | 7,888 | 8,397 | 9,411 | 10,417 | 12,896 |        |
| 114,3                                      |                                  |       |       | 4,237 | 4,515 | 5,624 | 6,999 | 7,272 | 8,361 | 8,902 | 9,979 | 11,048 | 13,684 | 16,271 |

weight kg/m  
вес кг/м

ROUND TUBES

Трубы круглого сечения

EN 10217-7

EN 10296-2

| outside diameter<br>наружный диаметр<br>mm | wall thickness толщина стенки mm |   |     |       |       |        |        |        |        |        |        |        |        |        |
|--------------------------------------------|----------------------------------|---|-----|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                            | 0,80                             | 1 | 1,2 | 1,5   | 1,6   | 2      | 2,5    | 2,6    | 3      | 3,2    | 3,6    | 4      | 5      | 6      |
| 127                                        |                                  |   |     | 4,714 | 5,024 | 6,260  | 7,794  | 8,099  | 9,315  | 9,920  | 11,124 | 12,320 | 15,274 | 18,179 |
| 129                                        |                                  |   |     | 4,789 | 5,104 | 6,360  | 7,919  | 8,229  | 9,465  | 10,080 | 11,304 | 12,520 | 15,525 | 18,480 |
| 139,7                                      |                                  |   |     | 5,191 | 5,533 | 6,896  | 8,589  | 8,926  | 10,269 | 10,937 | 12,269 | 13,592 | 16,864 | 20,087 |
| 153                                        |                                  |   |     | 5,690 | 6,066 | 7,562  | 9,421  | 9,792  | 11,268 | 12,003 | 13,468 | 14,924 | 18,530 | 22,085 |
| 154                                        |                                  |   |     | 5,728 | 6,106 | 7,612  | 9,484  | 9,857  | 11,343 | 12,083 | 13,558 | 15,024 | 18,655 | 22,236 |
| 155                                        |                                  |   |     | 5,765 | 6,146 | 7,662  | 9,547  | 9,922  | 11,418 | 12,163 | 13,648 | 15,124 | 18,780 | 22,386 |
| 156                                        |                                  |   |     | 5,803 | 6,186 | 7,712  | 9,609  | 9,987  | 11,493 | 12,244 | 13,738 | 15,224 | 18,905 | 22,536 |
| 159                                        |                                  |   |     | 5,916 | 6,306 | 7,863  | 9,797  | 10,182 | 11,719 | 12,484 | 14,008 | 15,525 | 19,281 | 22,987 |
| 168,3                                      |                                  |   |     | 6,265 | 6,679 | 8,328  | 10,379 | 10,788 | 12,417 | 13,229 | 14,847 | 16,456 | 20,445 | 24,384 |
| 204                                        |                                  |   |     | 7,606 | 8,109 | 10,116 | 12,614 | 13,112 | 15,099 | 16,090 | 18,065 | 20,032 | 24,915 | 29,748 |
| 205                                        |                                  |   |     | 7,643 | 8,149 | 10,166 | 12,677 | 13,177 | 15,174 | 16,170 | 18,155 | 20,132 | 25,040 | 29,898 |
| 206                                        |                                  |   |     |       |       | 10,216 | 12,739 | 13,242 | 15,249 | 16,250 | 18,245 | 20,232 | 25,165 | 30,048 |
| 219,1                                      |                                  |   |     |       |       | 10,872 | 13,559 | 14,095 | 16,233 | 17,300 | 19,426 | 21,544 | 26,805 | 32,016 |
| 254                                        |                                  |   |     |       |       | 12,620 | 15,744 | 16,367 | 18,855 | 20,096 | 22,572 | 25,040 | 31,175 | 37,260 |
| 255                                        |                                  |   |     |       |       | 12,670 | 15,807 | 16,432 | 18,930 | 20,176 | 22,662 | 25,140 | 31,300 | 37,410 |
| 256                                        |                                  |   |     |       |       | 12,720 | 15,869 | 16,497 | 19,005 | 20,256 | 22,752 | 25,240 | 31,425 | 37,560 |
| 273                                        |                                  |   |     |       |       | 13,572 | 16,933 | 17,604 | 20,282 | 21,619 | 24,285 | 26,943 | 33,554 | 40,114 |
| 304                                        |                                  |   |     |       |       | 15,124 | 18,874 | 19,622 | 22,611 | 24,103 | 27,079 | 30,048 | 37,435 | 44,772 |
| 306                                        |                                  |   |     |       |       | 15,224 | 18,999 | 19,753 | 22,761 | 24,263 | 27,260 | 30,248 | 37,685 | 45,072 |
| 323,9                                      |                                  |   |     |       |       | 16,121 | 20,120 | 20,918 | 24,106 | 25,697 | 28,873 | 32,041 | 39,926 | 47,761 |
| 355,6                                      |                                  |   |     |       |       | 17,708 | 22,104 | 22,982 | 26,487 | 28,237 | 31,731 | 35,216 | 43,895 | 52,524 |
| 406,4                                      |                                  |   |     |       |       | 20,252 | 25,284 | 26,289 | 30,303 | 32,308 | 36,310 | 40,304 | 50,255 | 60,156 |

Standard delivery program - Стандартные условия поставки

10 Marcegaglia Specialties

Marcegaglia Specialties 11

ROUND TUBES  
Трубы круглого сечения

weight kg/m  
вес кг/м

EN 10217-7  
EN 10357

| outside diameter<br>наружный диаметр<br>mm | wall thickness толщина стенки mm |       |       |        |
|--------------------------------------------|----------------------------------|-------|-------|--------|
|                                            | 1                                | 1,5   | 1,6   | 2      |
| 18                                         | 0,426                            | 0,620 |       |        |
| 19                                         |                                  | 0,657 |       |        |
| 22                                         | 0,526                            | 0,770 |       |        |
| 23                                         |                                  | 0,808 |       |        |
| 25                                         | 0,715                            |       |       |        |
| 28                                         | 0,676                            | 0,995 |       |        |
| 29                                         |                                  | 1,033 |       |        |
| 33                                         |                                  | 1,183 |       |        |
| 34                                         | 0,826                            | 1,221 |       |        |
| 35                                         |                                  | 1,258 |       |        |
| 38                                         | 1,106                            | 1,371 | 1,458 |        |
| 40                                         | 0,977                            | 1,446 |       |        |
| 41                                         |                                  | 1,484 |       |        |
| 43                                         |                                  | 1,559 |       |        |
| 50,8                                       | 1,490                            | 1,852 | 1,971 |        |
| 51                                         | 1,496                            |       |       |        |
| 52                                         | 1,277                            | 1,897 |       |        |
| 53                                         |                                  | 1,934 |       |        |
| 63,5                                       |                                  | 2,329 | 2,480 |        |
| 70                                         |                                  |       |       | 3,405  |
| 76,1                                       |                                  | 2,802 | 2,985 |        |
| 85                                         |                                  |       |       | 4,157  |
| 101,6                                      |                                  |       |       | 4,988  |
| 104                                        |                                  |       |       | 5,108  |
| 129                                        |                                  |       |       | 6,360  |
| 154                                        |                                  |       |       | 7,612  |
| 204                                        |                                  |       |       | 10,116 |

ROUND TUBES  
Трубы круглого сечения

weight kg  
вес кг

EN 10217-7  
A270

| outside diameter<br>наружный диаметр |        | Birmingham Wire Gauge |       |       |       |       |
|--------------------------------------|--------|-----------------------|-------|-------|-------|-------|
|                                      |        | 18                    | 16    | 14    | 12    | 11    |
|                                      |        | 1,24                  | 1,65  | 2,11  | 2,77  | 3,05  |
| mm                                   | inches | wall thickness mm     |       |       |       |       |
| 15,88                                | 5/8"   | 0,455                 | 0,588 | 0,728 |       |       |
| 19,05                                | 3/4"   | 0,553                 | 0,719 | 0,895 |       |       |
| 25,4                                 | 1"     | 0,750                 | 0,981 | 1,231 | 1,570 | 1,707 |
| 31,8                                 | 1 1/4" | 0,949                 | 1,246 | 1,569 | 2,014 | 2,196 |
| 38,1                                 | 1 1/2" | 1,144                 | 1,506 | 1,902 | 2,451 | 2,677 |
| 44,45                                | 1 3/4" | 1,342                 | 1,768 | 2,237 | 2,891 | 3,162 |
| 50,8                                 | 2"     | 1,539                 | 2,031 | 2,573 | 3,331 | 3,647 |
| 60,3                                 | 2 3/8" | 1,834                 | 2,423 | 3,074 | 3,990 | 4,372 |
| 63,5                                 | 2 1/2" | 1,933                 | 2,555 | 3,244 | 4,212 | 4,617 |
| 76,2                                 | 3"     | 2,327                 | 3,080 | 3,915 | 5,093 | 5,587 |
| 88,9                                 | 3 1/2" |                       | 3,605 | 4,585 | 5,974 | 6,557 |
| 101,6                                | 4"     |                       | 4,130 | 5,256 | 6,855 | 7,526 |
| 114,3                                | 4 1/2" |                       | 4,654 | 5,927 | 7,736 | 8,496 |

ROUND TUBES  
Трубы круглого сечения

weight kg/m  
вес кг/м

EN 10217-7  
DVGW 541

| outside diameter<br>наружный диаметр<br>mm | wall thickness толщина стенки mm |       |       |       |
|--------------------------------------------|----------------------------------|-------|-------|-------|
|                                            | 1                                | 1,2   | 1,5   | 2     |
| 15                                         | 0,351                            |       |       |       |
| 18                                         | 0,426                            |       |       |       |
| 22                                         |                                  | 0,625 |       |       |
| 28                                         |                                  | 0,805 |       |       |
| 35                                         |                                  |       | 1,258 |       |
| 42                                         |                                  |       | 1,521 |       |
| 54                                         |                                  |       | 1,972 |       |
| 76,1                                       |                                  |       |       | 3,711 |
| 88,9                                       |                                  |       |       | 4,352 |
| 108                                        |                                  |       |       | 5,308 |

In order to offer the most advanced technological response and to help develop, apply and enforce the most rigorous protocols for food safety, Marcegaglia Specialties was the **first company** the stainless steel tubes to obtain for process pipes for the food and dairy industry EN 10217-7 the **EHEDG** certification, about the compliance of the preparation and packaging processes of food products, according to hygiene criteria.

Для внедрения новейших технологий и содействия в разработке, применении и усилении самых строгих протоколов обеспечения безопасности продуктов питания Marcegaglia Specialties стала **первой компанией**, которая предложила пищевому и молочному сектору нержавеющей трубы, соответствующие стандарту EN 10217-7 и сертификату **EHEDG**, подтверждающие их пригодность к подготовке и упаковке в пищевой отрасли в соответствии с гигиеническими критериями.



ROUND PIPES  
Трубы круглого сечения

EN 10217-7 - ASTM A312, A778

weight kg/m  
вес кг/м

| NPS    | outside diameter<br>наружный диаметр<br>mm | standard стандарт ANSI B 36-19                 |       |                        |       |                        |        |
|--------|--------------------------------------------|------------------------------------------------|-------|------------------------|-------|------------------------|--------|
|        |                                            | schedule сортament 5S                          |       | schedule сортament 10S |       | schedule сортament 40S |        |
|        |                                            | wall thickness and weight толщина стенки и вес |       |                        |       |                        |        |
|        |                                            | mm                                             | kg/m  | mm                     | kg/m  | mm                     | kg/m   |
| 3/8"   | 17,15                                      |                                                |       | 1,65                   | 0,640 | 2,31                   | 0,858  |
| 1/2"   | 21,34                                      | 1,65                                           | 0,814 | 2,11                   | 1,016 | 2,77                   | 1,288  |
| 3/4"   | 26,67                                      | 1,65                                           | 1,034 | 2,11                   | 1,298 | 2,87                   | 1,710  |
| 1"     | 33,4                                       | 1,65                                           | 1,312 | 2,77                   | 2,125 | 3,38                   | 2,541  |
| 1 1/4" | 42,16                                      | 1,65                                           | 1,674 | 2,77                   | 2,732 | 3,56                   | 3,441  |
| 1 1/2" | 48,26                                      | 1,65                                           | 1,926 | 2,77                   | 3,155 | 3,68                   | 4,108  |
| 2"     | 60,33                                      | 1,65                                           | 2,424 | 2,77                   | 3,992 | 3,91                   | 5,524  |
| 2 1/2" | 73,03                                      | 2,11                                           | 3,747 | 3,05                   | 5,345 | 5,16                   | 8,769  |
| 3"     | 88,9                                       | 2,11                                           | 4,585 | 3,05                   | 6,557 | 5,49                   | 11,466 |
| 3 1/2" | 101,6                                      | 2,11                                           | 5,256 | 3,05                   | 7,526 |                        |        |
| 4"     | 114,3                                      | 2,11                                           | 5,927 | 3,05                   | 8,496 |                        |        |



The great attention to quality and process improvement has led Marcegaglia Specialties to obtain important certifications: **round welded process pipes for oil and gas EN 10217-7** are TUV - AD2000 W2 / W10 certified, according to PED 2014/68/EU Directive about the design, construction, equipment and installation of pressure equipment.

The EU Pressure Equipment Directive aims to guarantee free movement of the products in its scope while ensuring a high level of safety.

Пристальное внимание к качеству и совершенствованию процессов позволили компании Marcegaglia Specialties получить следующие важные сертификаты: **для круглых электросварных труб подачи сред для нефтегазовой отрасли** по EN 10217-7 – сертификат TUV - AD2000 W2 / W10, согласно Директиве PED 2014/68/EU в отношении проектирования, строительства, оснащения и установки оборудования, работающего под давлением.

Эта Директива нацелена на гарантию свободного перемещения продукции в соответствующем секторе и обеспечение высокого уровня безопасности.

|                                                                                  |        |                                                        |       |                        |       |      | weight kg/m<br>вес кг/м |  |                         |
|----------------------------------------------------------------------------------|--------|--------------------------------------------------------|-------|------------------------|-------|------|-------------------------|--|-------------------------|
|  |        | ROUND TUBES                                            |       | Трубы круглого сечения |       |      |                         |  | EN 10217-7<br>ASTM A249 |
| outside diameter<br>наружный диаметр                                             |        | Birmingham Wire Gauge Бирмингемский сортамент проводов |       |                        |       |      |                         |  |                         |
|                                                                                  |        | 18                                                     | 16    | 14                     | 12    | 11   |                         |  |                         |
|                                                                                  |        | 1,24                                                   | 1,65  | 2,11                   | 2,77  | 3,05 |                         |  |                         |
| mm                                                                               | inches | wall thickness толщина стенки mm                       |       |                        |       |      |                         |  |                         |
| 15,88                                                                            | 5/8"   | 0,455                                                  | 0,588 | 0,728                  |       |      |                         |  |                         |
| 19,05                                                                            | 3/4"   | 0,553                                                  | 0,719 | 0,895                  |       |      |                         |  |                         |
| 25,4                                                                             | 1"     | 0,750                                                  | 0,981 | 1,231                  | 1,570 |      | 1,707                   |  |                         |
| 31,8                                                                             | 1 1/4" | 0,949                                                  | 1,246 | 1,569                  | 2,014 |      | 2,196                   |  |                         |
| 38,1                                                                             | 1 1/2" | 1,144                                                  | 1,506 | 1,902                  | 2,451 |      | 2,677                   |  |                         |
| 44,45                                                                            | 1 3/4" | 1,342                                                  | 1,768 | 2,237                  | 2,891 |      | 3,162                   |  |                         |
| 50,8                                                                             | 2"     | 1,539                                                  | 2,031 | 2,573                  | 3,331 |      | 3,647                   |  |                         |
| 60,3                                                                             | 2 3/8" | 1,834                                                  | 2,423 | 3,074                  | 3,990 |      | 4,372                   |  |                         |
| 63,5                                                                             | 2 1/2" | 1,933                                                  | 2,555 | 3,244                  | 4,212 |      | 4,617                   |  |                         |
| 76,2                                                                             | 3"     | 2,327                                                  | 3,080 | 3,915                  | 5,093 |      | 5,587                   |  |                         |
| 88,9                                                                             | 3 1/2" |                                                        | 3,605 | 4,585                  | 5,974 |      | 6,557                   |  |                         |
| 101,6                                                                            | 4"     |                                                        | 4,130 | 5,256                  | 6,855 |      | 7,526                   |  |                         |
| 114,3                                                                            | 4 1/2" |                                                        | 4,654 | 5,927                  | 7,736 |      | 8,496                   |  |                         |

Marcegaglia Specialties manufactures a range of **stainless steel round tubes EN 10217-7** and has strengthened production with the introduction of two new laser lines, for the processing of tubes with a diameter of less than 35 mm, to better serve the market of **heat exchangers** and **boilers**.

Marcegaglia Specialties производит широкий ассортимент круглых труб из **нержавеющей стали стандарта EN 10217-7** и расширяет производственные возможности внедрением двух новых линий лазерных станков для резки труб диаметром менее 35 мм для поставок на **рынок теплообменников** и **котлов**.



| <div><div><div>3</div><div>0</div></div><div></div></div> <div>ROUND TUBES Austenitic grades 1.4301, 1.4307 - Ferritic grades 1.4512, 1.4509, 1.4510<br/>Трубы круглого сечения - Аустенитная сталь 1.4301, 1.4307 - Ферритная сталь 1.4512, 1.4509, 1.4510</div> <div>weight kg/m<br/>вес кг/м</div> <div>EN 10296-2</div> |                                  |          |            |          |            |          |            |          |            |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|----------|------------|----------|------------|----------|------------|----------|------------|----------|
| outside diameter<br>наружный диаметр<br>mm                                                                                                                                                                                                                                                                                  | wall thickness толщина стенки mm |          |            |          |            |          |            |          |            |          |
|                                                                                                                                                                                                                                                                                                                             | 1                                |          | 1,2        |          | 1,5        |          | 1,8        |          | 2          |          |
|                                                                                                                                                                                                                                                                                                                             | austenitic                       | ferritic | austenitic | ferritic | austenitic | ferritic | austenitic | ferritic | austenitic | ferritic |
| 20                                                                                                                                                                                                                                                                                                                          | 0,476                            | 0,471    | 0,565      | 0,559    | 0,695      | 0,688    | 0,820      | 0,812    | 0,901      | 0,893    |
| 22                                                                                                                                                                                                                                                                                                                          | 0,526                            | 0,521    | 0,625      | 0,619    | 0,770      | 0,763    | 0,910      | 0,902    | 1,002      | 0,992    |
| 25                                                                                                                                                                                                                                                                                                                          | 0,601                            | 0,595    | 0,715      | 0,708    | 0,883      | 0,874    | 1,046      | 1,036    | 1,152      | 1,141    |
| 28                                                                                                                                                                                                                                                                                                                          | 0,676                            | 0,670    | 0,805      | 0,798    | 0,995      | 0,986    | 1,181      | 1,170    | 1,302      | 1,290    |
| 30                                                                                                                                                                                                                                                                                                                          | 0,726                            | 0,719    | 0,865      | 0,857    | 1,070      | 1,060    | 1,271      | 1,259    | 1,402      | 1,389    |
| 32                                                                                                                                                                                                                                                                                                                          | 0,776                            | 0,769    | 0,925      | 0,917    | 1,146      | 1,135    | 1,361      | 1,348    | 1,502      | 1,488    |
| 35                                                                                                                                                                                                                                                                                                                          | 0,851                            | 0,843    | 1,016      | 1,006    | 1,258      | 1,246    | 1,496      | 1,482    | 1,653      | 1,637    |
| 38                                                                                                                                                                                                                                                                                                                          | 0,926                            | 0,918    | 1,106      | 1,095    | 1,371      | 1,358    | 1,632      | 1,616    | 1,803      | 1,786    |
| 40                                                                                                                                                                                                                                                                                                                          | 0,977                            | 0,967    | 1,166      | 1,155    | 1,446      | 1,432    | 1,722      | 1,705    | 1,903      | 1,885    |
| 42                                                                                                                                                                                                                                                                                                                          | 1,027                            | 1,017    | 1,226      | 1,214    | 1,521      | 1,507    | 1,812      | 1,795    | 2,003      | 1,984    |
| 43                                                                                                                                                                                                                                                                                                                          | 1,052                            | 1,041    | 1,256      | 1,243    | 1,559      | 1,543    | 1,857      | 1,839    | 2,053      | 2,033    |
| 44,5                                                                                                                                                                                                                                                                                                                        | 1,089                            | 1,078    | 1,301      | 1,288    | 1,615      | 1,599    | 1,925      | 1,906    | 2,128      | 2,108    |
| 45                                                                                                                                                                                                                                                                                                                          | 1,102                            | 1,091    | 1,316      | 1,303    | 1,634      | 1,618    | 1,947      | 1,928    | 2,153      | 2,133    |
| 48                                                                                                                                                                                                                                                                                                                          | 1,177                            | 1,166    | 1,406      | 1,393    | 1,747      | 1,730    | 2,082      | 2,062    | 2,304      | 2,282    |
| 50                                                                                                                                                                                                                                                                                                                          | 1,227                            | 1,215    | 1,466      | 1,452    | 1,822      | 1,804    | 2,172      | 2,152    | 2,404      | 2,381    |
| 50,8                                                                                                                                                                                                                                                                                                                        | 1,247                            | 1,235    | 1,490      | 1,476    | 1,852      | 1,833    | 2,209      | 2,187    | 2,444      | 2,420    |
| 52                                                                                                                                                                                                                                                                                                                          | 1,277                            | 1,264    | 1,526      | 1,511    | 1,897      | 1,878    | 2,263      | 2,240    | 2,504      | 2,480    |
| 53                                                                                                                                                                                                                                                                                                                          | 1,302                            | 1,290    | 1,556      | 1,542    | 1,934      | 1,916    | 2,308      | 2,286    | 2,554      | 2,530    |
| 54                                                                                                                                                                                                                                                                                                                          | 1,327                            | 1,314    | 1,587      | 1,571    | 1,972      | 1,953    | 2,353      | 2,330    | 2,604      | 2,579    |
| 55                                                                                                                                                                                                                                                                                                                          | 1,352                            | 1,339    | 1,617      | 1,601    | 2,009      | 1,990    | 2,398      | 2,375    | 2,654      | 2,629    |
| 57                                                                                                                                                                                                                                                                                                                          | 1,402                            | 1,389    | 1,677      | 1,661    | 2,085      | 2,065    | 2,488      | 2,464    | 2,754      | 2,728    |
| 58                                                                                                                                                                                                                                                                                                                          | 1,427                            | 1,414    | 1,707      | 1,690    | 2,122      | 2,102    | 2,533      | 2,509    | 2,804      | 2,778    |
| 60                                                                                                                                                                                                                                                                                                                          | 1,477                            | 1,463    | 1,767      | 1,750    | 2,197      | 2,176    | 2,623      | 2,598    | 2,905      | 2,877    |
| 60,3                                                                                                                                                                                                                                                                                                                        | 1,495                            | 1,470    | 1,776      | 1,758    | 2,209      | 2,187    | 2,637      | 2,611    | 2,920      | 2,891    |
| 63,5                                                                                                                                                                                                                                                                                                                        | 1,565                            | 1,550    | 1,872      | 1,854    | 2,329      | 2,306    | 2,781      | 2,754    | 3,080      | 3,050    |
| 65                                                                                                                                                                                                                                                                                                                          | 1,603                            | 1,587    | 1,917      | 1,899    | 2,385      | 2,362    | 2,849      | 2,821    | 3,155      | 3,125    |
| 70                                                                                                                                                                                                                                                                                                                          | 1,728                            | 1,711    | 2,067      | 2,047    | 2,573      | 2,548    | 3,074      | 3,044    | 3,405      | 3,373    |
| 73                                                                                                                                                                                                                                                                                                                          | 1,803                            | 1,785    | 2,157      | 2,136    | 2,686      | 2,659    | 3,209      | 3,178    | 3,556      | 3,521    |
| 75                                                                                                                                                                                                                                                                                                                          | 1,853                            | 1,835    | 2,218      | 2,196    | 2,761      | 2,734    | 3,299      | 3,267    | 3,656      | 3,620    |
| 76,1                                                                                                                                                                                                                                                                                                                        |                                  |          | 2,251      | 2,229    | 2,802      | 2,775    | 3,349      | 3,317    | 3,711      | 3,675    |
| 80                                                                                                                                                                                                                                                                                                                          |                                  |          | 2,368      | 2,345    | 2,948      | 2,920    | 3,525      | 3,491    | 3,906      | 3,869    |
| 83                                                                                                                                                                                                                                                                                                                          |                                  |          | 2,458      | 2,434    | 3,061      | 3,031    | 3,660      | 3,624    | 4,056      | 4,017    |
| 84                                                                                                                                                                                                                                                                                                                          |                                  |          | 2,488      | 2,464    | 3,099      | 3,069    | 3,705      | 3,669    | 4,107      | 4,067    |
| 85                                                                                                                                                                                                                                                                                                                          |                                  |          | 2,518      | 2,494    | 3,136      | 3,106    | 3,750      | 3,714    | 4,157      | 4,117    |
| 88,9                                                                                                                                                                                                                                                                                                                        |                                  |          | 2,635      | 2,610    | 3,283      | 3,251    | 3,926      | 3,888    | 4,352      | 4,310    |
| 101,6                                                                                                                                                                                                                                                                                                                       |                                  |          |            |          | 3,760      | 3,724    | 4,498      | 4,455    | 4,988      | 4,940    |
| 104                                                                                                                                                                                                                                                                                                                         |                                  |          |            |          | 3,850      | 3,813    | 4,606      | 4,562    | 5,108      | 5,059    |
| 108                                                                                                                                                                                                                                                                                                                         |                                  |          |            |          | 4,000      | 3,962    | 4,787      | 4,741    | 5,308      | 5,258    |
| 110                                                                                                                                                                                                                                                                                                                         |                                  |          |            |          | 4,075      | 4,036    | 4,877      | 4,830    | 5,409      | 5,357    |
| 114,3                                                                                                                                                                                                                                                                                                                       |                                  |          |            |          | 4,237      | 4,196    | 5,071      | 5,022    | 5,624      | 5,570    |
| 127                                                                                                                                                                                                                                                                                                                         |                                  |          |            |          | 4,714      | 4,669    | 5,643      | 5,589    | 6,260      | 6,200    |
| 129                                                                                                                                                                                                                                                                                                                         |                                  |          |            |          | 4,789      | 4,743    | 5,733      | 5,678    | 6,360      | 6,299    |
| 130                                                                                                                                                                                                                                                                                                                         |                                  |          |            |          | 4,826      | 4,780    | 5,778      | 5,723    | 6,410      | 6,349    |
| 139,7                                                                                                                                                                                                                                                                                                                       |                                  |          |            |          | 5,191      | 5,141    | 6,215      | 6,156    | 6,896      | 6,830    |
| 155                                                                                                                                                                                                                                                                                                                         |                                  |          |            |          | 5,765      | 5,710    | 6,905      | 6,839    | 7,662      | 7,589    |

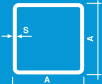
To serve the automotive sector, Marcegaglia manufactures a wide range of **stainless steel round tubes EN 10296-2** for **exhaust systems** and for **hydroforming applications**, as well as **custom shaped sections** for bus frames and it is implementing its specific know-how in the production of ferritic and **duplex tubes**.

Для автомобильного сектора Marcegaglia производит широкий ассортимент **нержавеющих труб круглого сечения**, соответствующих **EN 10296-2**, которые могут использоваться в **отводящих и гидравлических системах, фасонный прокат индивидуальных типоразмеров** для производства каркасов автобусов, а также ферритные и **дуплексные трубы** по собственной передовой технологии.

|                        |  |       |
|------------------------|--|-------|
| T. 1739                |  | • 30% |
|                        |  |       |
| Thickness толщина (mm) |  | kg/m  |
| 1,5                    |  | 3,24  |

|                        |  |       |
|------------------------|--|-------|
| T. 2035                |  | • 30% |
|                        |  |       |
| Thickness толщина (mm) |  | kg/m  |
| 2                      |  | 3,90  |

|                        |  |       |
|------------------------|--|-------|
| T. 2029                |  | • 50% |
|                        |  |       |
| Thickness толщина (mm) |  | kg/m  |
| 1,5                    |  | 5,11  |

|                                                                                     |     |                                                                                                       |       |            |       |
|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------------------|-------|------------|-------|
|                                                                                     |     | weight kg/m<br>вес кг/м                                                                               |       |            |       |
|  |     | Square hollow sections<br>Ferritic grade 1.4003<br>Трубы квадратного сечения - Ферритные марки 1.4003 |       | EN 10219-2 |       |
| external dimensions<br>наружные размеры                                             |     | wall thickness толщина стенки mm                                                                      |       |            |       |
| A x A mm                                                                            |     | 1.5                                                                                                   | 2.0   | 3.0        | 4.0   |
| 20                                                                                  | 20  | 0,873                                                                                                 |       |            |       |
| 30                                                                                  | 30  | 1,337                                                                                                 | 1,758 |            |       |
| 40                                                                                  | 40  | 1,801                                                                                                 | 2,377 | 3,492      | 4,559 |
| 50                                                                                  | 50  |                                                                                                       | 2,995 | 4,42       | 5,796 |
| 60                                                                                  | 60  |                                                                                                       |       | 5,347      | 7,032 |
| 80                                                                                  | 80  |                                                                                                       |       | 7,202      |       |
| 100                                                                                 | 100 |                                                                                                       |       | 9,058      |       |
|                                                                                     |     | weight kg/m<br>вес кг/м                                                                               |       |            |       |

|                                                                                     |    |                                                                                                               |       |            |        |
|-------------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------|-------|------------|--------|
|  |    | Rectangular hollow sections<br>Ferritic grade 1.4003<br>Трубы прямоугольного сечения - Ферритные марки 1.4003 |       | EN 10219-2 |        |
| external dimensions<br>наружные размеры                                             |    | wall thickness толщина стенки mm                                                                              |       |            |        |
| H x B (mm)                                                                          |    | 1.5                                                                                                           | 2.0   | 3.0        | 4.0    |
| 30                                                                                  | 20 | 1,105                                                                                                         |       |            |        |
| 40                                                                                  | 10 | 1,105                                                                                                         |       |            |        |
| 40                                                                                  | 20 | 1,337                                                                                                         | 1,758 |            |        |
| 40                                                                                  | 30 | 1,569                                                                                                         | 2,067 | 3,028      |        |
| 50                                                                                  | 30 |                                                                                                               | 2,377 | 3,492      |        |
| 50                                                                                  | 40 |                                                                                                               | 2,686 | 3,956      |        |
| 60                                                                                  | 20 |                                                                                                               | 2,377 |            |        |
| 60                                                                                  | 30 |                                                                                                               | 2,686 | 3,956      |        |
| 60                                                                                  | 40 | 2,264                                                                                                         | 2,995 | 4,42       | 5,796  |
| 80                                                                                  | 30 |                                                                                                               | 3,304 | 4,883      |        |
| 80                                                                                  | 40 |                                                                                                               | 3,613 | 5,347      |        |
| 80                                                                                  | 60 |                                                                                                               |       | 6,275      | 8,269  |
| 100                                                                                 | 40 |                                                                                                               | 4,232 | 6,275      |        |
| 100                                                                                 | 50 |                                                                                                               |       | 6,739      |        |
| 120                                                                                 | 40 |                                                                                                               |       | 7,202      |        |
| 120                                                                                 | 80 |                                                                                                               |       | 9,058      | 11,979 |





SQUARE TUBES

Трубы квадратного сечения

ASTM A554

weight kg/m  
вес кг/м

| external dimensions<br>наружные размеры | wall thickness толщина стенки mm |       |       |       |       |       |       |       |
|-----------------------------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|
| A x A mm                                | 1                                | 1,2   | 1,5   | 2     | 2,5   | 3     | 4     | 5     |
| 10 x 10                                 | 0,294                            | 0,347 | 0,422 |       |       |       |       |       |
| 15 x 15                                 | 0,453                            | 0,538 | 0,661 | 0,857 |       |       |       |       |
| 16 x 16                                 | 0,485                            | 0,576 | 0,709 | 0,921 |       |       |       |       |
| 20 x 20                                 | 0,613                            | 0,729 | 0,901 | 1,176 |       |       |       |       |
| 25 x 25                                 | 0,772                            | 0,921 | 1,140 | 1,495 | 1,837 | 2,167 |       |       |
| 30 x 30                                 | 0,932                            | 1,112 | 1,379 | 1,814 | 2,236 | 2,645 |       |       |
| 35 x 35                                 | 1,091                            | 1,304 | 1,618 | 2,133 | 2,635 | 3,124 |       |       |
| 40 x 40                                 | 1,251                            | 1,495 | 1,858 | 2,452 | 3,033 | 3,602 | 4,703 |       |
| 45 x 45                                 | 1,410                            | 1,686 | 2,097 | 2,771 | 3,432 | 4,081 | 5,341 |       |
| 50 x 50                                 |                                  | 1,878 | 2,336 | 3,090 | 3,831 | 4,559 | 5,979 | 7,349 |
| 60 x 60                                 |                                  |       | 2,814 | 3,728 | 4,628 | 5,516 | 7,255 | 8,943 |
| 70 x 70                                 |                                  |       |       | 3,293 | 4,366 | 5,426 | 6,473 | 8,531 |
| 80 x 80                                 |                                  |       |       |       | 3,771 | 5,004 | 6,223 | 7,430 |
| 100 x 100                               |                                  |       |       |       |       | 6,279 | 7,818 | 9,344 |
| 120 x 120                               |                                  |       |       |       |       |       | 7,555 | 9,413 |
| 150 x 150                               |                                  |       |       |       |       |       |       | 9,469 |
| 200 x 200                               |                                  |       |       |       |       |       |       |       |

 Standard delivery program - Стандартные условия поставки



RECTANGULAR TUBES

Трубы прямоугольного сечения

ASTM A554

weight kg/m  
вес кг/м

| external dimensions | wall thickness mm |       |       |       |        |        |        |        |
|---------------------|-------------------|-------|-------|-------|--------|--------|--------|--------|
| A x B mm            | 1                 | 1,2   | 1,5   | 2     | 2,5    | 3      | 4      | 5      |
| 20 x 10             | 0,453             | 0,538 | 0,661 |       |        |        |        |        |
| 20 x 15             | 0,533             | 0,634 | 0,781 | 1,016 |        |        |        |        |
| 25 x 10             | 0,533             | 0,634 | 0,781 | 1,016 |        |        |        |        |
| 25 x 15             | 0,613             | 0,729 | 0,901 | 1,176 |        |        |        |        |
| 30 x 10             | 0,613             | 0,729 | 0,901 | 1,176 |        |        |        |        |
| 30 x 15             | 0,693             | 0,825 | 1,020 | 1,335 |        |        |        |        |
| 30 x 20             | 0,772             | 0,921 | 1,140 | 1,495 | 1,837  | 2,167  |        |        |
| 35 x 20             | 0,852             | 1,017 | 1,259 | 1,654 | 2,036  | 2,406  |        |        |
| 40 x 10             | 0,772             | 0,921 | 1,140 | 1,495 | 1,837  | 2,167  |        |        |
| 40 x 15             | 0,852             | 1,017 | 1,259 | 1,654 | 2,036  | 2,406  |        |        |
| 40 x 20             | 0,932             | 1,112 | 1,379 | 1,814 | 2,236  | 2,645  |        |        |
| 40 x 27             | 1,044             | 1,246 | 1,547 | 2,037 | 2,515  | 2,980  |        |        |
| 40 x 30             | 1,091             | 1,304 | 1,618 | 2,133 | 2,635  | 3,124  |        |        |
| 50 x 10             | 0,932             | 1,112 | 1,379 | 1,814 | 2,236  | 2,645  |        |        |
| 50 x 20             | 1,091             | 1,304 | 1,618 | 2,133 | 2,635  | 3,124  |        |        |
| 50 x 25             | 1,171             | 1,399 | 1,738 | 2,292 | 2,834  | 3,363  |        |        |
| 50 x 30             | 1,251             | 1,495 | 1,858 | 2,452 | 3,033  | 3,602  |        |        |
| 50 x 40             | 1,410             | 1,686 | 2,097 | 2,771 | 3,432  | 4,081  |        |        |
| 60 x 10             | 1,091             | 1,304 | 1,618 | 2,133 | 2,635  | 3,124  |        |        |
| 60 x 20             | 1,251             | 1,495 | 1,858 | 2,452 | 3,033  | 3,602  |        |        |
| 60 x 30             | 1,410             | 1,686 | 2,097 | 2,771 | 3,432  | 4,081  |        |        |
| 60 x 40             |                   |       | 2,336 | 3,090 | 3,831  | 4,559  | 5,979  |        |
| 70 x 20             |                   |       | 2,097 | 2,771 | 3,432  | 4,081  | 5,341  |        |
| 70 x 40             |                   |       | 2,575 | 3,409 | 4,229  | 5,038  | 6,617  |        |
| 80 x 20             |                   |       | 2,336 | 3,090 | 3,831  | 4,559  | 5,979  |        |
| 80 x 30             |                   |       | 2,575 | 3,409 | 4,229  | 5,038  | 6,617  |        |
| 80 x 40             |                   |       | 2,814 | 3,728 | 4,628  | 5,516  | 7,255  | 8,943  |
| 80 x 50             |                   |       | 3,054 | 4,047 | 5,027  | 5,995  | 7,893  | 9,741  |
| 80 x 60             |                   |       | 3,293 | 4,366 | 5,426  | 6,473  | 8,531  | 10,538 |
| 100 x 40            |                   |       | 3,293 | 4,366 | 5,426  | 6,473  | 8,531  | 10,538 |
| 100 x 50            |                   |       | 3,532 | 4,685 | 5,824  | 6,952  | 9,169  | 11,336 |
| 100 x 60            |                   |       | 3,771 | 5,004 | 6,223  | 7,430  | 9,807  | 12,133 |
| 100 x 80            |                   |       | 4,250 | 5,641 | 7,021  | 8,387  | 11,083 | 13,728 |
| 120 x 40            |                   |       | 3,771 | 5,004 | 6,223  | 7,430  | 9,807  | 12,133 |
| 120 x 60            |                   |       | 4,250 | 5,641 | 7,021  | 8,387  | 11,083 | 13,728 |
| 120 x 80            |                   |       | 4,728 | 6,279 | 7,818  | 9,344  | 12,359 | 15,323 |
| 150 x 50            |                   |       |       | 6,279 | 7,818  | 9,344  | 12,359 | 15,323 |
| 150 x 100           |                   |       |       | 7,874 | 9,812  | 11,736 | 15,548 | 19,310 |
| 160 x 80            |                   |       |       | 7,555 | 9,413  | 11,258 | 14,910 | 18,513 |
| 200 x 100           |                   |       |       | 9,469 | 11,805 | 14,129 | 18,738 | 23,298 |

 Standard delivery program - Стандартные условия поставки

OVAL WELDED TUBES
СВАРНЫЕ ТРУБЫ ОВАЛЬНОГО СЕЧЕНИЯ

ASTM A554

weight kg/m  
вес кг/м

| OVAL TUBES                              |       | ASTM A554                        |       |       |  |
|-----------------------------------------|-------|----------------------------------|-------|-------|--|
| Трубы овального сечения                 |       |                                  |       |       |  |
| external dimensions<br>наружные размеры |       | wall thickness толщина стенки mm |       |       |  |
| A x B mm                                | 1     | 1,2                              | 1,5   | 2     |  |
| 21,8 x 11,8                             | 0,426 | 0,505                            | 0,620 | 0,801 |  |
| 22 x 12                                 | 0,426 | 0,505                            | 0,620 | 0,801 |  |
| 24 x 13                                 | 0,452 | 0,536                            | 0,659 | 0,854 |  |
| 25,4 x 8                                | 0,452 | 0,536                            | 0,659 | 0,854 |  |
| 30 x 15                                 | 0,611 | 0,727                            | 0,898 | 1,172 |  |
| 30 x 20                                 | 0,649 | 0,772                            | 0,954 | 1,247 |  |
| 35 x 15                                 | 0,676 | 0,805                            | 0,995 | 1,302 |  |
| 38,5 x 20                               | 0,776 | 0,925                            | 1,146 | 1,502 |  |
| 41 x 20                                 | 0,819 | 0,977                            | 1,209 | 1,588 |  |
| 41,27 x 15,88                           | 0,776 | 0,925                            | 1,146 | 1,502 |  |
| 48,5 x 20                               | 0,929 | 1,109                            | 1,375 | 1,808 |  |
| 50 x 10                                 | 0,851 | 1,016                            | 1,258 | 1,653 |  |



SPECIAL SHAPES FOR WINDOW AND DOOR FRAMES
ТРУБЫ СПЕЦИАЛЬНОГО ПРОФИЛЯ ИЗ НЕРЖАВЕЮЩЕЙ СТАЛИ ДЛЯ ОКОННЫХ

|              |       |
|--------------|-------|
| 1A           | • 55% |
|              |       |
| Thickness    | kg/m  |
| толщина (mm) | кг/м  |
| 1,2          | 1,39  |

|              |       |
|--------------|-------|
| 1B           | • 55% |
|              |       |
| Thickness    | kg/m  |
| толщина (mm) | кг/м  |
| 1,2          | 1,68  |

|              |       |
|--------------|-------|
| 1C           | • 55% |
|              |       |
| Thickness    | kg/m  |
| толщина (mm) | кг/м  |
| 1,2          | 1,58  |



STANDARD DELIVERY PROGRAMS
СТАНДАРТНЫЕ УСЛОВИЯ ПОСТАВКИ

EN 10296-2
ASTM A554

| POLISHED / MIRROR POLISHED |                | EN 10296-2             |     |   |     |   |
|----------------------------|----------------|------------------------|-----|---|-----|---|
| ROUND TUBES                |                | Трубы круглого сечения |     |   |     |   |
| outside diameter           | wall thickness | 1                      | 1,5 | 2 | 2,5 | 3 |
| 10                         | •              | •                      |     |   |     |   |
| 12                         | •              | •                      |     |   |     |   |
| 15                         | •              | •                      |     |   |     |   |
| 16                         | •              | •                      | •   |   |     |   |
| 17,2                       |                |                        | •   |   |     |   |
| 18                         |                | •                      | •   |   |     |   |
| 20                         |                | •                      | •   |   |     |   |
| 21,3                       |                | •                      | •   |   |     |   |
| 25                         |                | •                      | •   |   |     |   |
| 26,9                       |                |                        | •   |   |     |   |
| 30                         |                | •                      | •   |   |     |   |
| 32                         |                | •                      | •   |   |     |   |
| 33,7                       |                |                        | •   | • |     |   |
| 38                         |                | •                      | •   |   |     |   |
| 40                         |                | •                      | •   |   |     |   |
| 42,4                       |                |                        | •   | • | •   |   |
| 48,3                       |                |                        | •   | • |     |   |
| 50                         |                | •                      | •   |   |     |   |
| 50,8                       |                | •                      |     |   |     |   |
| 60,3                       |                |                        | •   | • |     |   |
| 76,1                       |                |                        | •   |   |     |   |
| 88,9                       |                |                        | •   |   |     |   |
| 114,3                      |                |                        | •   |   |     |   |
| 129                        |                |                        | •   |   |     |   |

- Polished\* - Сатинированные\*
- Mirror polished - Зеркально-полированные



(\*) Upon request - polishing available for other sizes
По запросу: возможна полировка изделий других размеров

## POLISHED SQUARE TUBES

ASTM A554

Сатинированные трубы квадратного сечения

external dimensions

наружные размеры

wall thickness толщина стенки mm

A x A mm

1

1,2

1,5

2

3

15 x 15

•

•

20 x 20

•

•

•

25 x 25

•

•

•

30 x 30

•

•

•

35 x 35

•

•

40 x 40

•

•

•

•

•

50 x 50

•

•

•

60 x 60

•

•

80 x 80

•

•

100 x 100

•

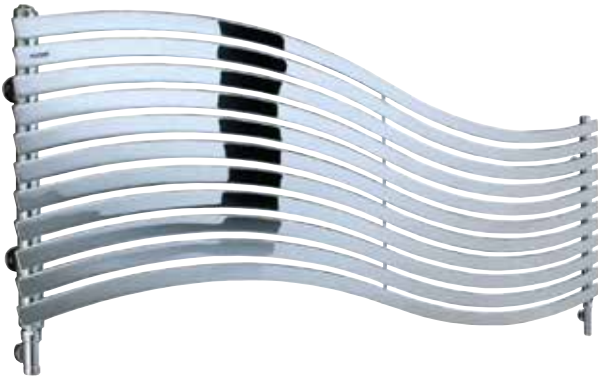
- Polished\* - Сатинированные\*

## POLISHED RECTANGULAR TUBES    ASTM A554

Сатинированные трубы прямоугольного сечения

| dimensions    размеры | wall thickness    толщина стенки    mm |     |   |   |
|-----------------------|----------------------------------------|-----|---|---|
| A x B mm              | 1,2                                    | 1,5 | 2 | 3 |
| 20 x 10               |                                        | •   |   |   |
| 25 x 10               |                                        | •   |   |   |
| 30 x 10               | •                                      | •   |   |   |
| 30 x 15               |                                        | •   | • |   |
| 30 x 20               |                                        | •   | • |   |
| 40 x 10               |                                        | •   |   |   |
| 40 x 15               |                                        | •   |   |   |
| 40 x 20               | •                                      | •   | • |   |
| 40 x 30               |                                        |     | • |   |
| 50 x 10               |                                        | •   |   |   |
| 50 x 20               |                                        | •   | • |   |
| 50 x 25               |                                        | •   | • |   |
| 50 x 30               |                                        | •   | • |   |
| 60 x 20               |                                        | •   |   |   |
| 60 x 30               |                                        | •   | • |   |
| 60 x 40               |                                        | •   | • | • |
| 80 x 40               |                                        |     | • | • |
| 100 x 40              |                                        |     | • |   |
| 100 x 50              |                                        |     | • | • |
| 100 x 60              |                                        |     |   | • |
| 120 x 40              |                                        |     | • |   |

- Polished\* - Сатинированные\*





#### HEADQUARTERS

**MARCEGAGLIA Gazoldo degli Ippoliti**  
via Bresciani, 16  
46040 Gazoldo degli Ippoliti, Mantova - Italy  
[www.marcegaglia.com](http://www.marcegaglia.com)

#### SALES OFFICES - ITALY:

**MARCEGAGLIA stainless steel division**  
46040 Gazoldo degli Ippoliti, Mantova - Italy  
phone +39 . 0376 685 367  
[inox@marcegaglia.com](mailto:inox@marcegaglia.com)

#### PLANTS - ITALY:

**MARCEGAGLIA Gazoldo degli Ippoliti**  
via Bresciani, 16  
46040 Gazoldo degli Ippoliti, Mantova - Italy  
phone +39 . 0376 685 1  
[info@marcegaglia.com](mailto:info@marcegaglia.com)

**MARCEGAGLIA Forlì**  
via E. Mattei, 20 - 47034 Forlimpopoli, Forlì - Italy  
phone +39 . 0543 470 111  
[forli@marcegaglia.com](mailto:forli@marcegaglia.com)

via Correcchio, 2/B - 47122 Forlì - Italy  
phone +39 . 0543 470 111  
[forli@marcegaglia.com](mailto:forli@marcegaglia.com)

**MARCEGAGLIA Contino**  
via A.I.D.O., 3  
46049 Contino di Volta Mantovana, Mantova - Italy  
phone +39 . 0376 846 01  
[contino@marcegaglia.com](mailto:contino@marcegaglia.com)

#### PLANTS AND SALES OFFICES - WORLDWIDE:

**MARCEGAGLIA RUSSIA Vladimir**  
Str B. Nizhegorodskaya Nr. 92 B  
600020 Vladimir - Russian Federation  
phone +7 (4922) 40-56-61  
[ru@marcegaglia.com](mailto:ru@marcegaglia.com) - [www.marcegaglia.ru](http://www.marcegaglia.ru)

**MARCEGAGLIA TURKEY**  
Barajyolu Velimeşe Mah. Küme Evleri Pelitlik Mevkii  
Sanayi Bölgesi No 108 Ergene/Tekirdağ/Türkiye  
phone +90 282 693 59 00 Fax +90 282 693 59 59  
[turkiye@marcegaglia.com](mailto:turkiye@marcegaglia.com)

**MARCEGAGLIA DO BRASIL Garuva**  
Rodovia BR101 Km 11 - Bairro Urubuquara 89248-000  
Garuva, Santa Catarina Brasil  
phone +55 . 47 . 3431 64 05  
[vendas@marcegaglia.com.br](mailto:vendas@marcegaglia.com.br)  
[www.marcegaglia.com.br](http://www.marcegaglia.com.br)