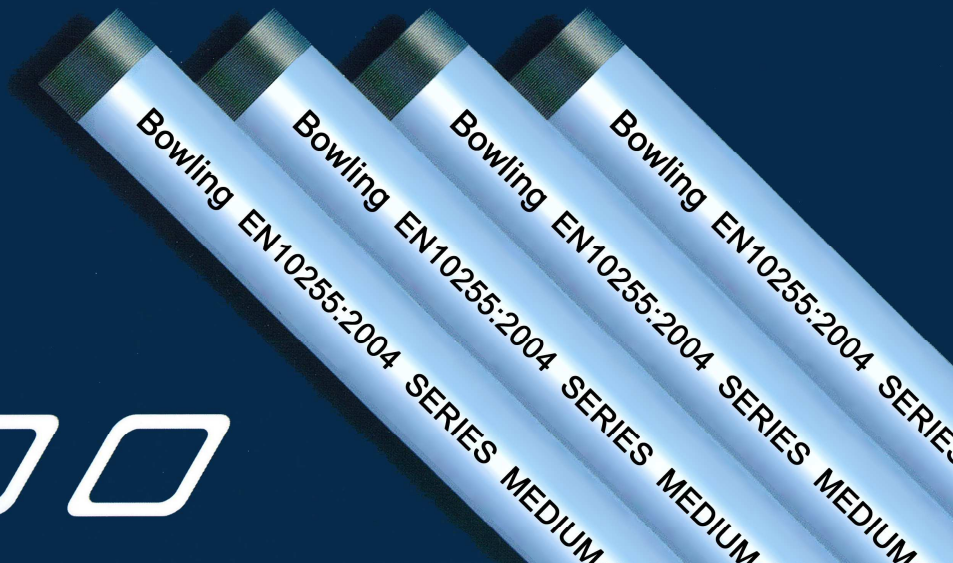
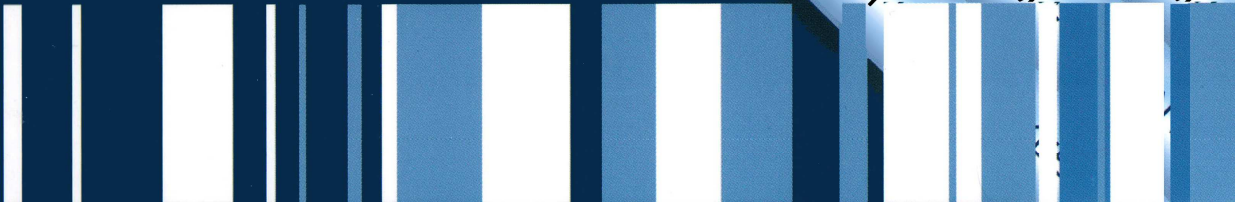


Bowling (JM)

STEEL PIPE TO
EN10255 AND EN10217-1



Bowling EN10255:2004 SERIES MEDIUM
Bowling EN10255:2004 SERIES MEDIUM
Bowling EN10255:2004 SERIES MEDIUM
Bowling EN10255:2004 SERIES MEDIUM





Bowling(JM)

Steel Pipe

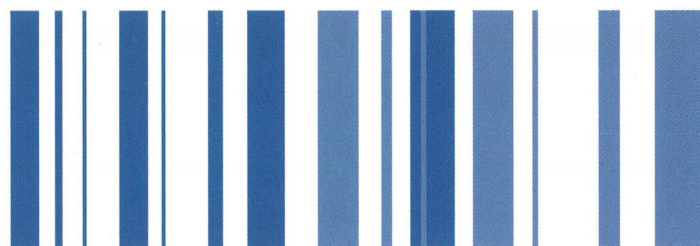
QUALITY INSPECTION

The on-line hydraulic testing machine with the maximum testing pressure of 7.5Mpa provides each finished pipe with a testing pressure of 5.0Mpa to meet requirement of the European Standard. A series of testing facilities, such as hydrostatic testing machine, Real-time X-ray imaging system, magnetic detectors device and so on are utilized for the inspection of raw materials and products. Advanced 5-elements laboratory unit is used for chemical analysis. The high-qualified staffs assure the accuracy and the precision of various inspections. All the above measures largely ensure the production process and thus the quality of products.



PRODUCTS

State European Standard EN10255 and EN10217-1 are strictly followed. By applying the advanced high frequency welding technique, the sophisticated devices of quality control and testing & experimental measures, and ISO9001 Quality Assurance system in our factory, it has made all the hot-dip galvanized pipes possess reliable welding seams, high accuracy of geometric shape and mechanical property (tensile strength, extension, bending, flattening test), all in compliance with the specifications of standard.

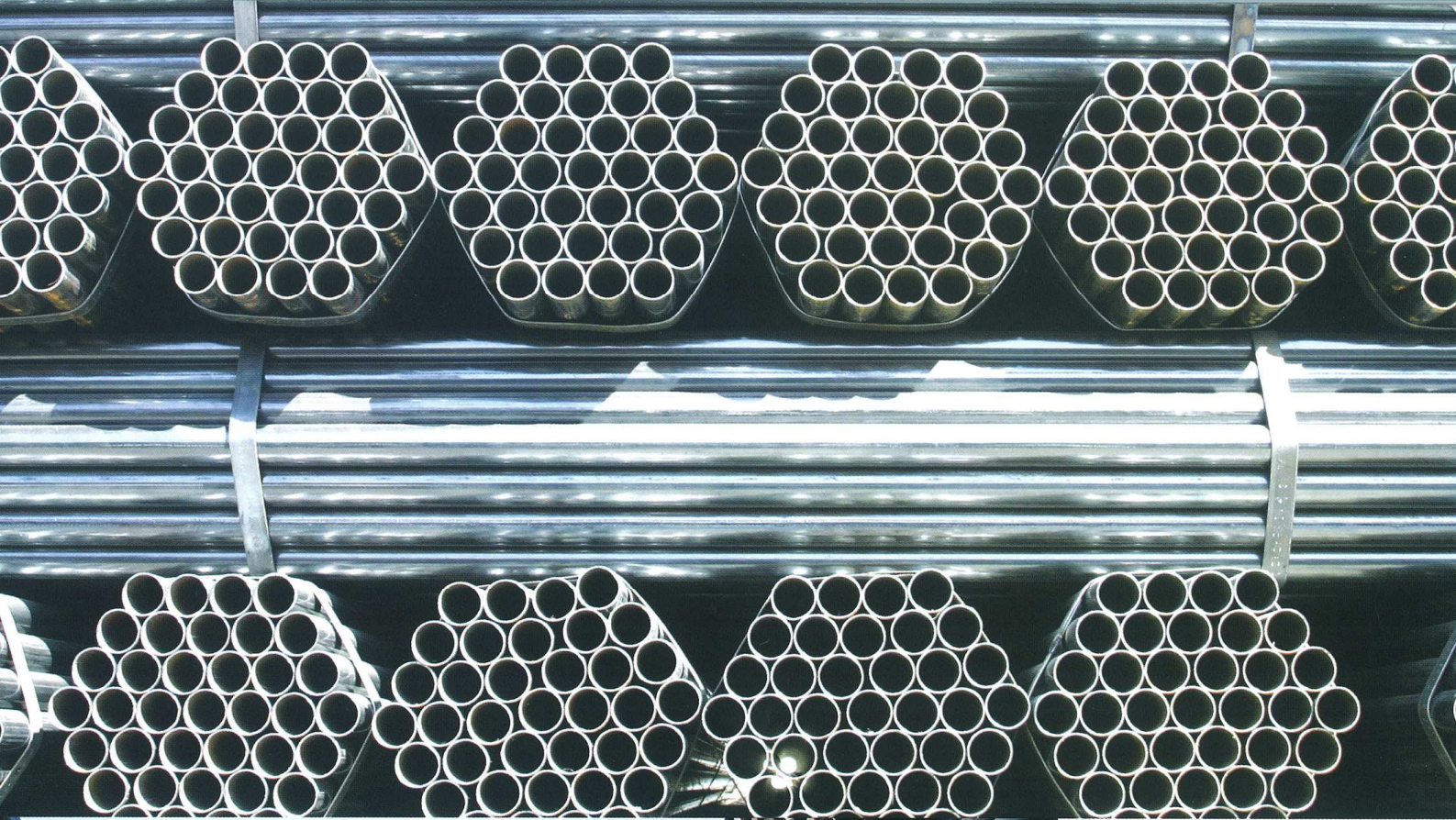




ERW hot-dipped galvanized steel pipe

Size : DN15-200mm round pipe;
galvanized spiral pipe with DN15-200mm

Usage : used for delivery of low pressure
Liquid such as water, gas, air, steam
for heating and for machine structural
purposes



ERW steel pipe

Size : DN15-2000mm round pipe

Usage : widely used in low pressure liquid delivery such as water, gas, air, oil, steam and for machine structural purposes

EN 10255

Galvanize Iron &
Black Steel Pipe

EN 10255 Non-alloy Steel Tubes Suitable for welding and Threading

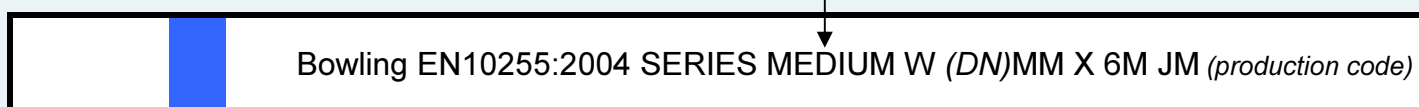
Dimension Table

| Classification | Nominal Size | Outside Diameter | | Wall Thickness | Mass of Black Tube | |
|----------------|--------------|------------------|----------|----------------|--------------------|-------------------------|
| | (mm) | Min.(mm) | Max.(mm) | (mm) | Plain End (kg/m) | Screw and Socket (kg/m) |
| MEDIUM | 15 | 21.1 | 21.7 | 2.6 | 1.21 | 1.22 |
| | 20 | 26.6 | 27.2 | 2.6 | 1.56 | 1.57 |
| | 25 | 33.4 | 34.2 | 3.2 | 2.41 | 2.43 |
| | 32 | 42.1 | 42.9 | 3.2 | 3.1 | 3.13 |
| | 40 | 48.0 | 48.8 | 3.2 | 3.57 | 3.61 |
| | 50 | 59.8 | 60.8 | 3.6 | 5.03 | 5.1 |
| | 65 | 75.4 | 76.6 | 3.6 | 6.43 | 6.55 |
| | 80 | 88.1 | 89.5 | 4 | 8.37 | 8.54 |
| | 100 | 113.3 | 114.9 | 4.5 | 12.2 | 12.5 |
| | 125 | 138.7 | 140.6 | 5 | 16.6 | 17.1 |
| HEAVY | 15 | 21.1 | 21.7 | 3.2 | 1.44 | 1.45 |
| | 20 | 26.6 | 27.2 | 3.2 | 1.87 | 1.88 |
| | 25 | 33.4 | 34.2 | 4 | 2.94 | 2.96 |
| | 32 | 42.1 | 42.9 | 4 | 3.8 | 3.83 |
| | 40 | 48.0 | 48.8 | 4 | 4.38 | 4.42 |
| | 50 | 59.8 | 60.8 | 4.5 | 6.19 | 6.26 |
| | 65 | 75.4 | 76.6 | 4.5 | 7.93 | 8.05 |
| | 80 | 88.1 | 89.8 | 5 | 10.3 | 10.5 |
| | 100 | 113.3 | 114.9 | 5.4 | 14.5 | 14.8 |
| | 125 | 138.7 | 140.6 | 5.4 | 17.9 | 18.4 |
| | 150 | 164.1 | 166.1 | 5.4 | 21.3 | 21.9 |

Note: Wall thickness tolerance is -10%
Length tolerance is +20mm/0

Body Marking

Series : MEDIUM or HEAVY



Color Coding band : Medium Series – Blue / Heavy Series – Red

EN 10217-1

Steel Pipe

Available Size (Dimension in mm)

| Nominal Size (DN) | Outside Diameter (OD) | 2.0 | 2.3 | 2.6 | 2.9 | 3.2 | 3.6 | 4.0 | 4.5 | 5.0 | 5.4 | 5.6 | 5.9 | 6.3 | 7.1 | 8.0 | 8.8 | 10.0 | 11.0 | 12.5 | 14.2 | 16.0 | 17.5 | 20.0 | 22.2 | 25.0 | |
|-------------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|--|
| 50 | 60.3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 65 | 76.1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 80 | 88.9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 100 | 114.3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | 139.7 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 150 | 168.3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 200 | 219.1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 250 | 273.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 300 | 323.9 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 350 | 355.6 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 400 | 406.4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 450 | 457.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 500 | 508.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 550 | 559.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 600 | 610.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 650 | 660.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 700 | 711.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 750 | 762.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 800 | 813.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 850 | 864.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 900 | 914.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000 | 1016.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1200 | 1220.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1400 | 1420.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1600 | 1620.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1800 | 1820.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2000 | 2020.0 | | | | | | | | | | | | | | | | | | | | | | | | | | |

Body Marking

Steel name

Bowling EW EN10217-1:2002 P265 TR1 C2 (DN)MM X (thk.)MM X 6M JM (production code)

PROPERTIES

EN10255

Chemical composition (cast analysis) and mechanical properties

| Chemical composition % | | | | Mechanical properties | | |
|------------------------|---------|--------|--------|---|---|---------------------------|
| C max. | Mn max. | P max. | S max. | Upper yield strength R _{eH} min. (Mpa) | Tensile strength R _m (Mpa) | Elongation A min. % |
| 0.20 | 1.40 | 0.035 | 0.030 | 195 | 320 - 520 | 20 |

EN10217-1

Chemical composition (cast analysis), in % by mass

| Steel grades | | C max. | Si max. | Mn max. | P max. | S max. | Cr max. | Mo max. | Ni max. | Al max. | Cu max. | Nb max. | Ti max. | V max. | Cr+Cu+ Mo+Ni max. |
|--------------|--------------|--------|---------|---------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|-------------------------|
| Steel name | Steel number | | | | | | | | | | | | | | |
| P195TR1 | 1.0107 | 0.13 | 0.35 | 0.70 | 0.025 | 0.02 | 0.30 | 0.08 | 0.30 | - | 0.30 | 0.01 | 0.04 | 0.02 | 0.70 |
| P195TR2 | 1.0108 | 0.13 | 0.35 | 0.70 | 0.025 | 0.02 | 0.30 | 0.08 | 0.30 | 0.02 | 0.30 | 0.01 | 0.04 | 0.02 | 0.70 |
| P235TR1 | 1.0254 | 0.16 | 0.35 | 1.20 | 0.025 | 0.02 | 0.30 | 0.08 | 0.30 | - | 0.30 | 0.01 | 0.04 | 0.02 | 0.70 |
| P235TR2 | 1.0255 | 0.16 | 0.35 | 1.20 | 0.025 | 0.02 | 0.30 | 0.08 | 0.30 | 0.02 | 0.30 | 0.01 | 0.04 | 0.02 | 0.70 |
| P265TR1 | 1.0258 | 0.20 | 0.40 | 1.40 | 0.025 | 0.02 | 0.30 | 0.08 | 0.30 | - | 0.30 | 0.01 | 0.04 | 0.02 | 0.70 |
| P265TR2 | 1.0259 | 0.20 | 0.40 | 1.40 | 0.025 | 0.02 | 0.30 | 0.08 | 0.30 | 0.02 | 0.30 | 0.01 | 0.04 | 0.02 | 0.70 |

Mechanical properties

| Steel grades | | Tensile properties | | | | |
|--------------|--------------|--|-------------|---|---------------------------|----|
| Steel name | Steel number | Upper yield strength R _{eH} min. for T mm (Mpa) | | Tensile Strength R _m (Mpa) | Elongation A min. % | |
| | | T ≤ 16 | 16 < T ≤ 40 | | l | t |
| P195TR1 | 1.0107 | 195 | 185 | 320-440 | 27 | 25 |
| P195TR2 | 1.0108 | 195 | 185 | 320-440 | 27 | 25 |
| P235TR1 | 1.0254 | 235 | 225 | 360-500 | 25 | 23 |
| P235TR2 | 1.0255 | 235 | 225 | 360-500 | 25 | 23 |
| P265TR1 | 1.0258 | 265 | 255 | 410-570 | 21 | 19 |
| P265TR2 | 1.0259 | 265 | 255 | 410-570 | 21 | 19 |

ADVANCED EQUIPMENT

High precision equipment is quality assurance.

Our manufacturer is equipped with the most advanced facilities and equipment in the industry. The main equipment include: automatic welding line, hot-dip galvanizing line, painting line, epoxy coating line, grooved machine and threaded machine and so on.



Welding Line



Hot-dip Galv. line



Painted Line



Plastic-Lining Line



Epoxy Line



PE Pipe Line



Welding Machine

QUALITY ASSURANCE

Quality is checked and monitored in the whole process from incoming inspection to finished production inspection. Each step of the manufacturing process is carefully documented, regularly reviewed for revision control and updating standard. Quality procedures are constantly monitored and updated to assure that only the highest and most consistent quality products are supplied to our valued customers.

Inspection facilities include: Spectral Analysis Machine, Metallographic Testing Machine, Universal Material Testing Machine, Eddy Current testing Machine, Hydraulic Testing Machine, Impact Testing Machine, etc.



Hydraulic Testing Machine



Annealing



Eddy Current Testing Machine



Tensile Strength Testing Machine



Spectrometer





Since 1949

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