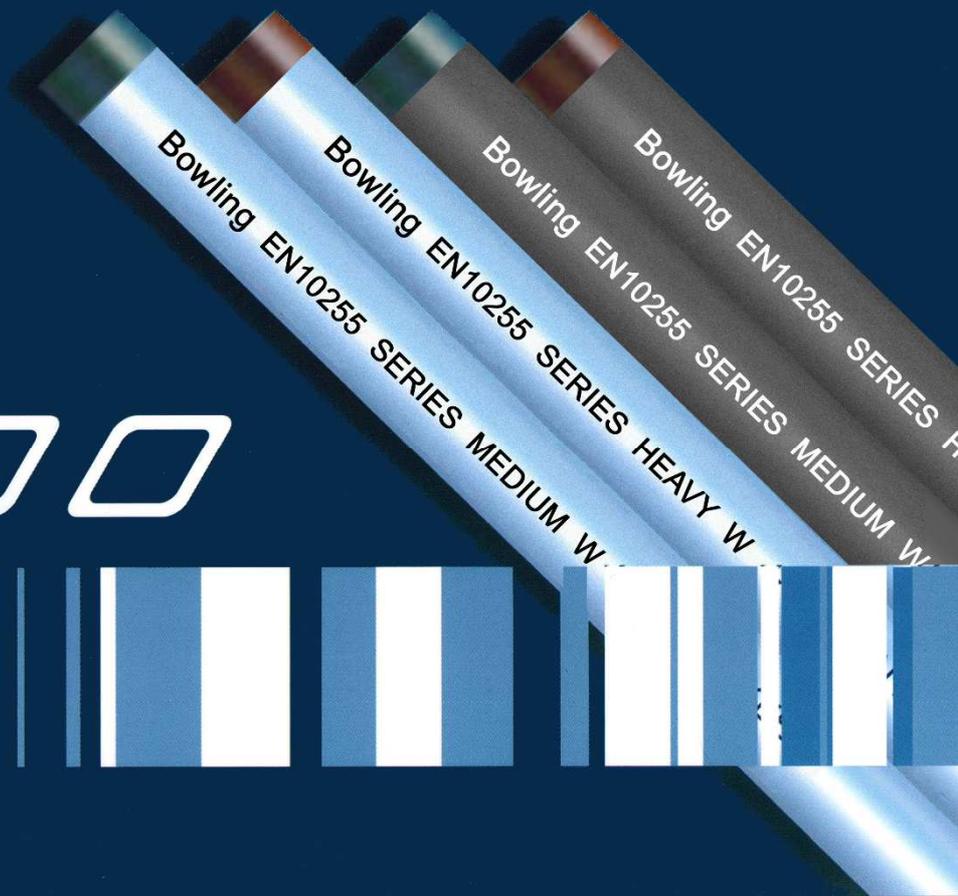
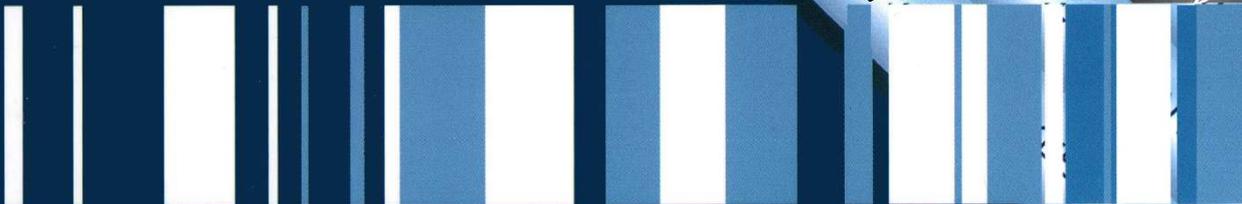


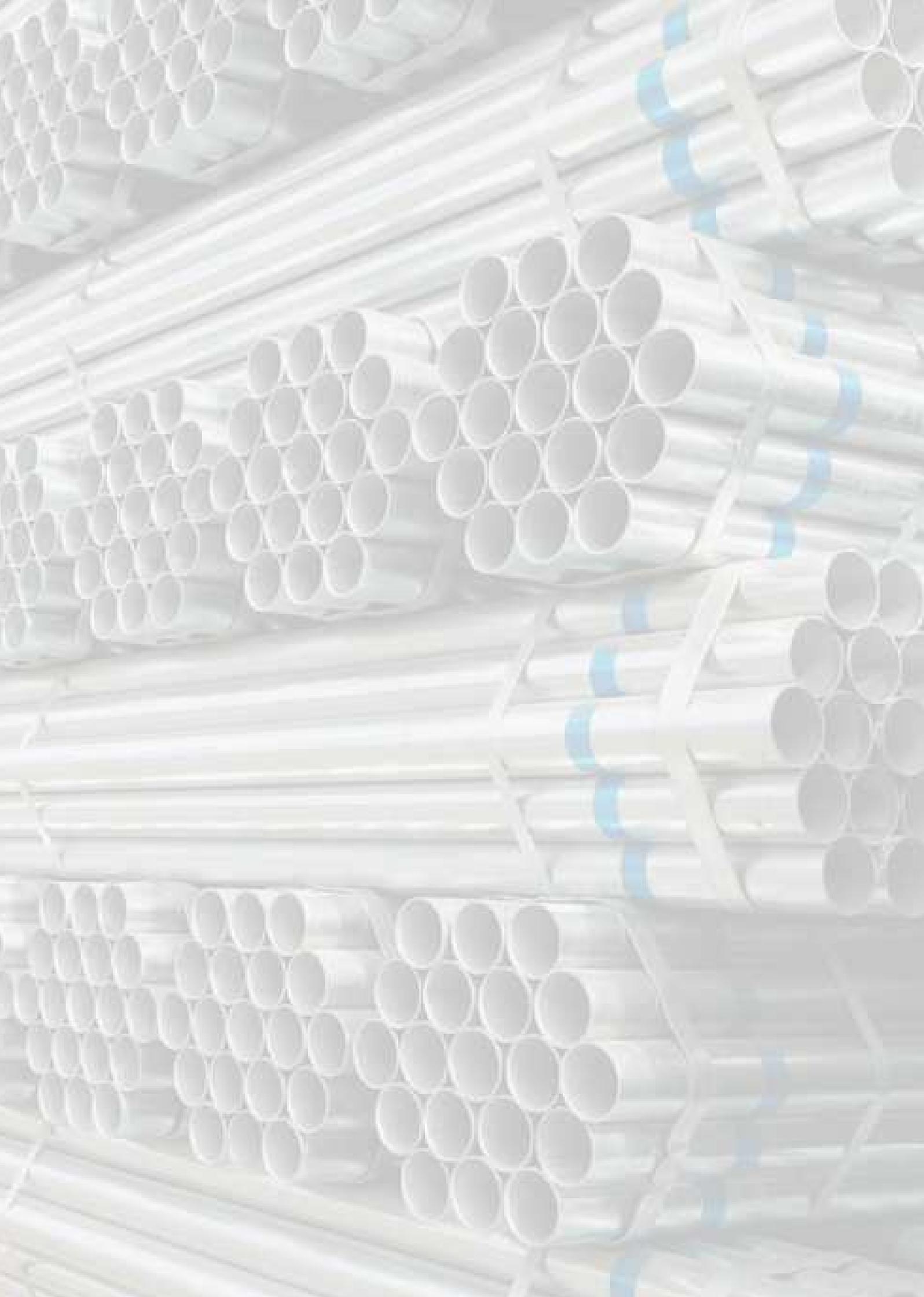
Bowling

STEEL PIPE TO
EN10255 AND EN10217-1



Bowling EN10255 SERIES MEDIUM W
Bowling EN10255 SERIES HEAVY W
Bowling EN10255 SERIES MEDIUM W
Bowling EN10255 SERIES MEDIUM W





Bowling

Steel Pipe

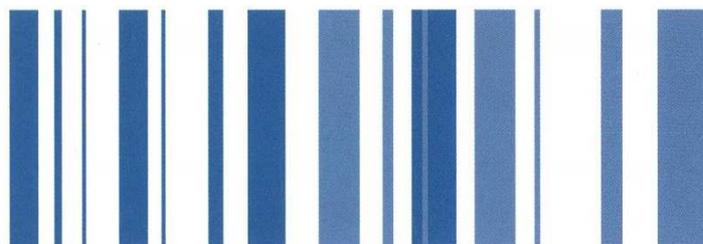
QUALITY INSPECTION

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.



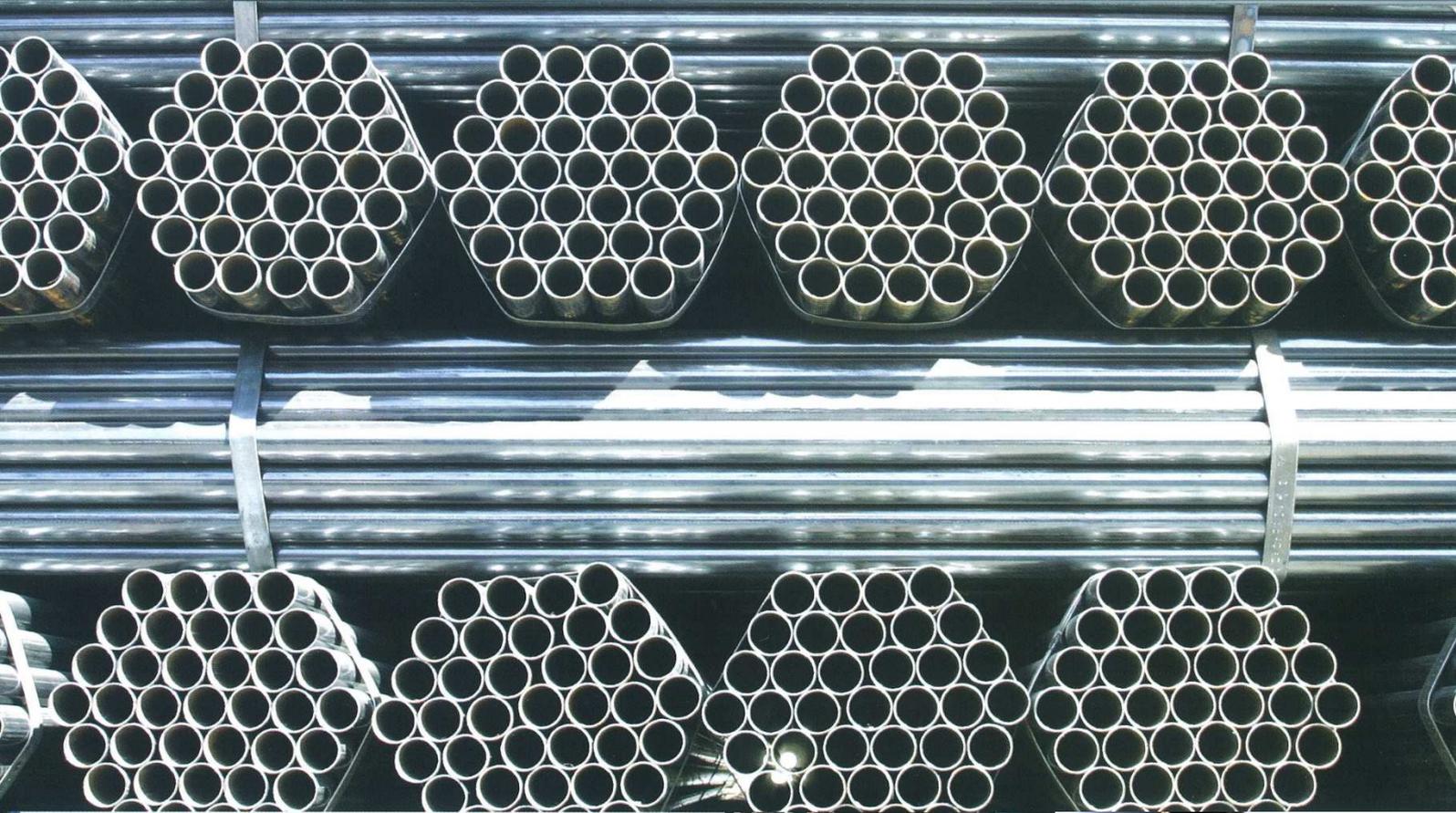


EN 10255

Electric Welded Steel Pipe

Size : DN15-150mm round pipe;
galvanized spiral pipe with DN15-150mm

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



EN 10217-1

EW/SAW 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

Galvanized Steel &
Black Steel Pipe

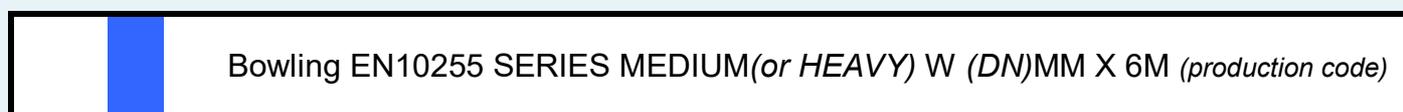
EN 10255 Non-alloy Steel Tubes Suitable for welding and threading

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
	150	164.1	166.1	5	19.7	20.3
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 $\pm 10\%$

Body Marking



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

EN 10217-1

Galvanized Steel &
Black Steel Pipe

Available Size (Dimension in mm)

Nominal Size (DN)	Outside Diameter (OD) - D	Available Wall Thickness - T																									
		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	9.5*	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																										
300	323.9																										
350	355.6																										
400	406.4																										
450	457																										
500	508																										
550	559																										
600	610																										
650	660																										
700	711																										
750	762																										
800	813																										
850	864																										
900	914																										
1000	1016																										
1200	1220																										
1400	1420																										
1600	1620																										
1800	1820																										
2000	2020																										

Note: Wall thickness tolerance is $T \leq 5$ is $\pm 10\%$ or ± 0.3 whichever is the greater, $5 < T \leq 10$ is $\pm 8\%$ or ± 2 whichever is the smaller
The preferred outside diameters D and wall thicknesses T (except *) have been selected from EN 10220

Body Marking

Steel name

Bowling EW(or SAWL) EN10217-1 P265 TR1 (DN)MM X (thk.)MM X 6M (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

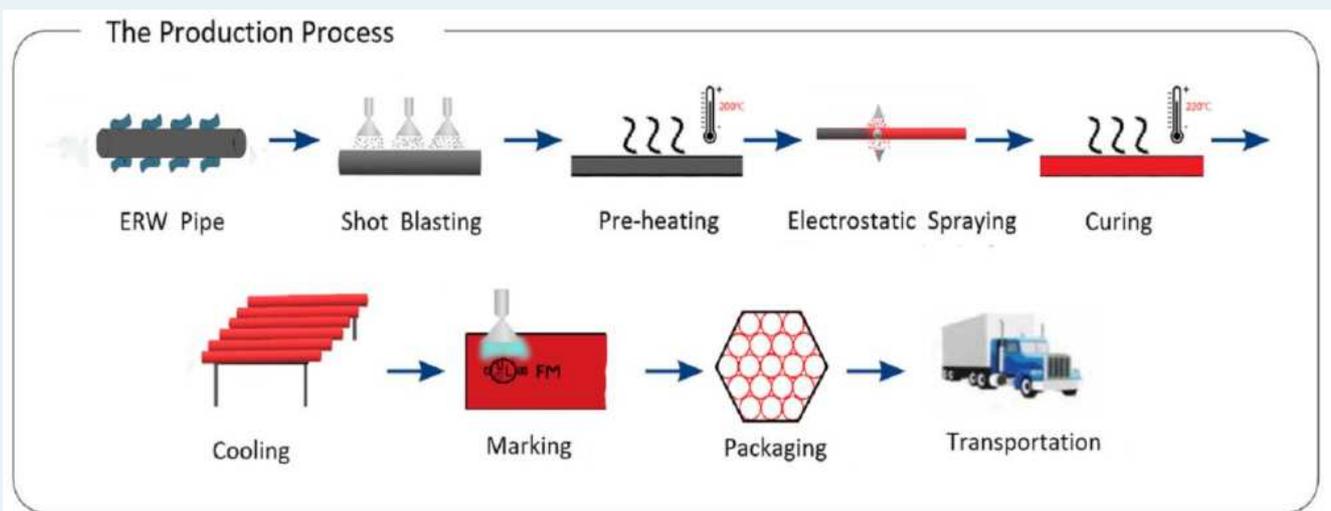
Steel grades		Tensile properties				
Steel name	Steel number	Upper yield strength R _{eH} min. for T mm (Mpa)		Tensile Strength R _m (Mpa)	Elongation A min. %	
		T ≤ 16	16 < T ≤ 40		l	t
P195TR1	1.0107	195	185	320-440	27	25
P195TR2	1.0108	195	185	320-440	27	25
P235TR1	1.0254	235	225	360-500	25	23
P235TR2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

EPOXY POWDER PAINTED STEEL PIPE



Advantages & Benefits

- A thicker, complete, uniform and super adhesive coating ensures much higher anti-rust performance than manual painting at construction site, even in highly corrosive environment in coastal cities.
- In-factory piping prefabrication, including surface coating, pipe cutting, grooving and threading, can significantly save 40% labor costs at construction site, completely avoid painting pollution, and shorten the whole construction period.
- Professional painting technology, reliable piping performance, and beautiful shining appearance can raise the visibility and reputation of the whole project significantly.



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



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