

Ferritic Piping Solutions

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Seamless Tubes

ASME SA 210 Grade A1

CARBON  
STEEL

Seamless medium-carbon steel boiler and super- heater tubes

Material Description

ASME SA 210 Grade A-1 Carbon Steel Seamless Tubes are Medium Carbon Steel Tubes with max 0.27 % carbon content with combination of max 0.93 % manganese. ASME SA 210 Grade A-1 Carbon Steel Seamless Tubes are most commonly used for general purpose applications worldwide. ASME SA 210 Grade A-1 Tubes are ductile and strong Tubes with long wearing properties. These Tubes are manufactured as per ASME Specification and commercially referred as carbon steel Tubes.

Chemical Properties

Carbon	Silicon	Manganese	Phosphorous	Sulphur	Molybdenum	Nickel	Chromium	Copper	Other Elements
max 0.27	min 0.10	max 0.93	0.035	0.035	-	-	-	-	-

Mechanical Properties

Yield Stress (0.2% Offset)		Tensile Strength			Elongation
min MPa	min MPa	min MPa	max MPa	min ksi	A5 min
255	-	415	-	60	30

Production Programme

The diameter, tolerances and surface finish of component are the same as those stated for the full length tube.  
 Outer diameter: 6.25-1800mm Nominal Dia: 1/4"-72"  
 Schedule: 10 - XXS / Thk 1mm-150mm  
 Single random Lengths: 4-7 meters  
 Double random Lengths: 7-13 meters  
 Chamfering can be done at fixed lengths.  
 Pipes are externally varnished with black paint or Bare.  
 Hot deep Galvanised Pipes with threaded ends are provided.

Certifications

Pipes and Tubes manufactured as per ASME SA 210 Grade A-1 are certified with En 10204 Type 3.1/3.2. IBR, NACE, HIC, IGC, IMPACT are adhered as supplementary testing requirements.

Product Marking

Each Pipe/tube is marked with tube type, heat number, steel grade and size. Other markings, such as stamping, can be made on request.

Reference Documents

A 450/A 450M, A520

Related Keywords

Carbon Steel Tubing, Ferritic Steel Tubing, Carbon Steel Seamless Tubing, Asme Sa 210 Grade A-1 Seamless Tubing, Sa 210 Tubing, Seamless Steel Tubing, Ferritic Carbon Steel Tubing, Asme Sa 210 Seamless Tubing

Equivalent Designation

European Standard EN P265GH Grade 10216-2	DIN Specification DIN 17175 Grade St 45.8
ASME Specification ASME SA 210 Grade A-1	ASTM Specification ASTM A210 Grade A-1
British Standard BS 3602 : Part 1 Grade 430	Japanese Standard JIS STPT410 Grade G3456

Pipes Make: ISMT, MSL, JSL, TATA, BHUSHAN, JINDAL, SUMITOMO, TENARIS, ARCELOR MITTAL

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