

Ferritic Piping Solutions

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Seamless Tubes

ASME SA 161 Grade T1

ALLOY
STEEL

Seamless low-carbon and carbon-molybdenum steel still tubes for refinery service

Material Description

ASME SA 161 Grade T-1 Alloy Steel Seamless Tubes are Carbon Steel Tubes with subsequent addition of chromium, molybdenum and sometimes vanadium are known as chrome moly Tubes. ASME Specification alloy steel Tubes are used for high temperature service applications. Seamless Alloy Steel Tubes according to ASME SA 161 Grade T-1 are reheated and furnished in full annealed, isothermal annealed or normalised quenched and tempered condition. ASME SA 161 Grade T-1 Alloy Steel Seamless Tubes have a typical chemistry with additions of 0.44-0.65 Molybdenum. Bearing minimum tensile strength of 379 Mpa ASME SA 161 Grade T-1 Tubes have a minimum yield strength of 207 Mpa.

Chemical Properties

Carbon	Silicon	Manganese	Phosphorous	Sulphur	Molybdenum	Nickel	Chromium	Copper	Other Elements
0.10-0.20	0.10-0.50	0.30-0.80	0.025	0.025	0.44-0.65	-	-	-	-

Mechanical Properties

Yield Stress (0.2% Offset)		Tensile Strength			Elongation
min MPa	min MPa	min MPa	max MPa	min ksi	A5 min
207	30	379	-	55	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 161 Grade T-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, A 999/A 999M, E213, E309, E381, E527, E570, SNT-TC-1A, SAE J 1086

Related Keywords

Alloy Steel Tubing, Chrome Moly Tubing, Alloy Steel Seamless Tubing, Asme Sa 161 Grade T-1 Seamless Tubing, T-1 Tubing, Seamless Steel Tubing, Ferritic Alloy Steel Tubing, Asme Sa 161 Seamless Tubing

Equivalent Designation

European Standard	DIN Specification DIN 17175 Grade 16Mo5
ASME Specification ASME SA 161 Grade T-1	ASTM Specification ASTM A161 Grade T-1
British Standard BS 3606 Grade 245	Japanese Standard -

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

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