Ferritic Piping Solutions

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FerroPipE

Seamless Tubes

ASTM A213 Grade T91

ALLOY STEEL

Seamless ferritic alloy steel pipe for high-temperature service

Material Description

ASTM A213 Grade T91 Alloy Steel Seamless Tubes are Carbon Steel Tubes with subsequent addition of chromium, molybdenum and sometimes vanadium are known as chrome moly Tubes.ASTM Specification alloy steel Tubes are used for high temperature service applications.Seamless Alloy Steel Tubes according to ASTM A213 Grade T91 are reheated and furnished in full annlealed,isothermal annealed or normalised quenched and tempered condition.ASTM A213 Grade T91 Alloy Steel Seamless Tubes have a typical chemistry with additions of 8.00-9.50 Chromium and 0.85-1.05 Molybdenum.Bearing minimum tensile strength of 585 Mpa ASTM A213 Grade T91 Tubes have a minimum yield strength of 415 Mpa.

Chemical Properties

Carbon	Silicon	Manganese	Phosphorous	Sulphur	Molybdenum	Nickel	Chromium	Copper	Other Elements
0.08-0.12	0.20-0.50	0.30-0.60	0.02	0.01	0.85-1.05	-	8.00-9.50	-	-

Mechanical Properties

Yeild Stress (O.2% Offset)		Tensile Strength			Elongation
min MPa	min MPa	min MPa	max MPa	min ksi	A5 min
415	60	585	-	85	20

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 ASTM A213 Grade T91 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, Astm A213 Grade T91 Seamless Tubing, T91 Tubing, Seamless Steel Tubing, Ferritic Alloy Steel Tubing, Astm A213 Seamless Tubing

Equivalent Designation

European Standard -	DIN Specification DIN 17179 Grade X10CrMoVNb9
ASME Specification ASME SA 213 Grade T91	ASTM Specification ASTM A213 Grade T91
British Standard -	Japanese Standard -

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

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India's Largest Stockist & Dealers of Carbon Steel Pipes & Alloy Steel Pipes

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