Ferritic Piping Solutions

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FerroPipE

Seamless Pipes

ASME SA 335 Grade P91

ALLOY STEEL

Seamless ferritic alloy steel pipe for high-temperature service

Material Description

ASME SA 335 Grade P91 Alloy Steel Seamless Pipes are Carbon Steel Pipes with subsequent addition of chromium, molybdenum and sometimes vanadium are known as chrome moly Pipes.ASME Specification alloy steel Pipes are used for high temperature service applications.Seamless Alloy Steel Pipes according to ASME SA 335 Grade P91 are reheated and furnished in full annlealed,isothermal annealed or normalised quenched and tempered condition.ASME SA 335 Grade P91 Alloy Steel Seamless Pipes have a typical chemistry with additions of 8.00-9.50 Chromium and 0.85-1.05 Molybdenum.Bearing minimum tensile strength of 415 Mpa ASME SA 335 Grade P91 Pipes have a minimum yield strength of 205 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
205	30	415	-	60	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 ASME SA 335 Grade P91 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 Pipe, Chrome Moly Pipe, Alloy Steel Seamless Pipe, Asme Sa 335 Grade P91 Seamless Pipe, P91 Pipe, Seamless Steel Pipe, Ferritic Alloy Steel Pipe, Asme Sa 335 Seamless Pipe

Equivalent Designation

European Standard -	DIN Specification DIN 17175 Grade X10CrMoVNb9
ASME Specification ASME SA 335 Grade P91	ASTM Specification ASTM A335 Grade P91
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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