

Ferritic Piping Solutions

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FerroPipe

Seamless Tubes

EN 10297-1 Grade C22E

CARBON
STEEL

Seamless circular steel tubes for mechanical and general engineering purpose

Material Description

EN 10297-1 Grade C22E Carbon Steel Seamless Tubes are Low Carbon Steel Tubes with 0.17-0.24 % carbon content with combination of 0.40-0.70 % manganese. EN 10297-1 Grade C22E Carbon Steel Seamless Tubes are also known as mild steel pipes and tubes. EN 10297-1 Grade C22E Tubes are low-cost Tubes easy to form and shape. These pipes are manufactured as per EN Specification and commercially referred as cs pipes or ms pipes. Low Carbon Steel Pipes are not as hard as high carbon steel pipes, though carburizing can increase its surface hardness.

Chemical Properties

Carbon	Silicon	Manganese	Phosphorous	Sulphur	Molybdenum	Nickel	Chromium	Copper	Other Elements
0.17-0.24	max 0.40	0.40-0.70	0.035	0.035	max 0.10	max 0.40	max 0.40	-	-

Mechanical Properties

Yield Stress (0.2% Offset)		Tensile Strength			Elongation
min MPa	min MPa	min MPa	max MPa	min ksi	A5 min
240	-	430	-	-	24

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 EN 10297-1 Grade C22E 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

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Related Keywords

Carbon Steel Tube, Ferritic Steel Tube, Carbon Steel Seamless Tube, EN 10297-1 Grade C22E Seamless Tube, C22E Tube, Seamless Steel Tube, Ferritic Carbon Steel Tube, EN 10297-1 Seamless Tube, Seamless Tube, Steel Tube

Equivalent Designation

European Standard EN 10297-1 Grade C22E	DIN Specification DIN 17204 Grade Ck22
ASME Specification ASME SA 519 Grade 1025	ASTM Specification ASTM A519 Grade 1025
British Standard BS 970 : 1983 Grade 070 M 20	Japanese Standard -

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

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