Ferritic Piping Solutions

sales@ferropipe.com

FerroPipE

Seamless Pipes and Tubes

EN 10083-2 Grade C45R

CARBON STEEL

Seamless steel circular quenched and tempered tubes

Material Description

EN 10083-2 Grade C45R Carbon Steel Seamless Pipes and Tubes are Medium Carbon Steel Pipes and Tubes with 0.42-0.50 % carbon content with combination of 0.50-0.80 % manganese.EN 10083-2 Grade C45R Carbon Steel Seamless Pipes and Tubes are most commonly used for general purpose applications worldwide.EN 10083-2 Grade C45R Pipes and Tubes are ductile and strong Pipes and Tubes with long wearing properties.These Pipes and Tubes are manufactured as per EN Specification and commercially referred as carbon steel Pipes and Tubes.

Chemical Properties

Carbon	Silicon	Manganese	Phosphorous	Sulphur	Molybdenum	Nickel	Chromium	Copper	Other Elements
0.42-0.50	max 0.40	0.50-0.80	0.035	0.04	max 0.10	max 0.40	max 0.40	-	-

Mechanical Properties

Yeild Stress (O.2% Offset)		Tensile Strength			Elongation
min MPa	min MPa	min MPa	max MPa	min ksi	A5 min
340	-	620	-	-	14

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 10083-2 Grade C45R 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 Pipe And Tube, Ferritic Steel Pipe And Tube, Carbon Steel Seamless Pipe And Tube, En 10083-2 Grade C45R Seamless Pipe And Tube, C45R Pipe And Tube, Seamless Steel Pipe And Tube, Ferritic Carbon Steel Pipe And Tube, En 10083-2 Seamless Pipe And Tube, Seamless Pipe and Tube, Steel Pipe and Tube

Equivalent Designation

European Standard EN 10083-2 Grade C45R	DIN Specification DIN 17204 Grade Cm45
ASME Specification -	ASTM Specification ASTM AISI Grade 1045
British Standard BS 6323 : Pt 3 Grade HFS 8	Japanese Standard -

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

#4/217, Deccan Bank Bldg,
R. R. Roy Road,
Mumbai – 400 004.
Maharashtra, INDIA

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

sales@ferropipe.com
00-91-22-66157017
www.FerroPipe.com

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