

Ferritic Piping Solutions

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FerroPipe

Seamless Hollow Bars

EN 10294-1 Grade C45

CARBON
STEEL

Hollow bars for machining

Material Description

EN 10294-1 Grade C45 Carbon Steel Seamless Hollow Bars are Medium Carbon Steel Hollow Bars with 0.42-0.50 % carbon content with combination of 0.50-0.80 % manganese. EN 10294-1 Grade C45 Carbon Steel Seamless Hollow Bars are most commonly used for general purpose applications worldwide. EN 10294-1 Grade C45 Hollow Bars are ductile and strong Hollow Bars with long wearing properties. These Hollow Bars are manufactured as per EN Specification and commercially referred as carbon steel Hollow Bars.

Chemical Properties

Carbon	Silicon	Manganese	Phosphorous	Sulphur	Molybdenum	Nickel	Chromium	Copper	Other Elements
0.42-0.50	max 0.40	0.50-0.80	0.045	0.045	-	-	-	-	-

Mechanical Properties

Yield Stress (0.2% Offset)		Tensile Strength			Elongation
min MPa	min MPa	min MPa	max MPa	min ksi	A5 min
350	-	610	-	-	16

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 10294-1 Grade C45 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 Hollow Bar, Ferritic Steel Hollow Bar, Carbon Steel Hollow Bar, EN 10294-1

Grade C45 Seamless Hollow Bar, C45 Hollow Bar, Seamless Steel Hollow Bar, Ferritic Carbon Steel Hollow Bar, EN 10294-1 Seamless Hollow Bar, Seamless Hollow Bar, Steel Hollow Bar

Equivalent Designation

European Standard
EN 10294-1

DIN Specification
DIN 17204 Grade C45

ASME Specification
ASME SA 519 Grade 1045

ASTM Specification
ASTM A519 Grade 1045

British Standard
BS 970 : 1983 Grade 080 M 46

Japanese Standard
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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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