

Ferritic Piping Solutions

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FerroPipe

Seamless Tubings

ASME SA 519 Grade 1045

CARBON
STEEL

Seamless carbon and alloy steel mechanical tubing

Material Description

ASME SA 519 Grade 1045 Carbon Steel Seamless Tubings are Medium Carbon Steel Tubings with 0.43-0.50 % carbon content with combination of 0.60-0.90 % manganese. ASME SA 519 Grade 1045 Carbon Steel Seamless Tubings are most commonly used for general purpose applications worldwide. ASME SA 519 Grade 1045 Tubings are ductile and strong Tubings with long wearing properties. These Tubings are manufactured as per ASME Specification and commercially referred as carbon steel Tubings.

Chemical Properties

| Carbon | Silicon | Manganese | Phosphorous | Sulphur | Molybdenum | Nickel | Chromium | Copper | Other Elements |
|-----------|---------|-----------|-------------|---------|------------|--------|----------|--------|----------------|
| 0.43-0.50 | - | 0.60-0.90 | 0.04 | 0.05 | - | - | - | - | - |

Mechanical Properties

| Yield Stress (0.2% Offset) | | Tensile Strength | | | Elongation |
|----------------------------|---------|------------------|---------|---------|------------|
| min MPa | min MPa | min MPa | max MPa | min ksi | A5 min |
| 310 | 45 | 517 | - | 75 | 15 |

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 519 Grade 1045 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 370, E59, MIL-STD-129, MIL-STD-163 Steel, Fed. Std. No. 144

Related Keywords

Carbon Steel Tubing, Ferritic Steel Tubing, Carbon Steel Seamless Tubing, Asme Sa 519 Grade 1045 Seamless Tubing, 1045 Tubing, Seamless Steel Tubing, Ferritic Carbon Steel Tubing, Asme Sa 519 Seamless Tubing

Equivalent Designation

| | |
|------------------------------|----------------------|
| European Standard | DIN Specification |
| - | DIN 17204 Grade C45 |
| ASME Specification | ASTM Specification |
| ASME SA 519 Grade 1045 | ASTM A519 Grade 1045 |
| British Standard | Japanese Standard |
| BS 970 : 1983 Grade 080 M 46 | - |

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

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