

Ferritic Piping Solutions

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Seamless Tubes

ASME SA 179

CARBON
STEEL

Seamless low-carbon and carbon-molybdenum steel still tubes for refinery service

Material Description

ASME SA 179 Carbon Steel Seamless Tubes are Low Carbon Steel Tubes with 0.06-0.18 % carbon content with combination of 0.27-0.63 % manganese. ASME SA 179 Carbon Steel Seamless Tubes are also known as mild steel pipes and tubes. ASME SA 179 Tubes are low-cost Tubes easy to form and shape. These pipes are manufactured as per ASME 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 |
|-----------|---------|-----------|-------------|---------|------------|--------|----------|--------|----------------|
| 0.06-0.18 | - | 0.27-0.63 | 0.035 | 0.035 | - | - | - | - | - |

Mechanical Properties

| Yield Stress (0.2% Offset) | | Tensile Strength | | Elongation |
|----------------------------|---------|-----------------------|---------|------------|
| min MPa | min MPa | min MPa | max MPa | A5 min |
| - | - | min MPa max.72 HRB | | - |

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 1791 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

Carbon Steel Tubing, Ferritic Steel Tubing, Carbon Steel Seamless Tubing, Asme Sa 179 Seamless Tubing, Sa 179 Tubing, Seamless Steel Tubing, Ferritic Carbon Steel Tubing, Asme Sa 179 Seamless Tubing

Equivalent Designation

| | |
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| European Standard EN P235GH Grade 10216-2 | DIN Specification - |
| ASME Specification ASME SA 179 | ASTM Specification ASTM A179 |
| British Standard - | Japanese Standard JIS STPT370 Grade G3456 |

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

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