Ferritic Piping Solutions

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FerroPipE

# Seamless Tubes

# ASTM A213 Grade T12

ALLOY STEEL

Seamless ferritic alloy steel pipe for high-temperature service

## Material Description

ASTM A213 Grade T12 Alloy Steel Seamless Tubes are Carbon Steel Tubes with subsequent addition of chromium, molybdenum and sometimes vanadium are known as chrome moly Tubes.ASTM Specification alloy steel Tubes are used for high temperature service applications.Seamless Alloy Steel Tubes according to ASTM A213 Grade T12 are reheated and furnished in full annlealed,isothermal annealed or normalised quenched and tempered condition.ASTM A213 Grade T12 Alloy Steel Seamless Tubes have a typical chemistry with additions of 0.80-1.25 Chromium and 0.44-0.65 Molybdenum.Bearing minimum tensile strength of 415 Mpa ASTM A213 Grade T12 Tubes have a minimum yield strength of 220 Mpa.

## Chemical Properties

| Carbon | Silicon | Manganese | Phosphorous | Sulphur | Molybdenum | Nickel | Chromium | Copper | Other Elements |
|---|---|---|---|---|---|---|---|---|---|
| 0.05-0.15 | 0.50max | 0.30-0.61 | 0.025 | 0.025 | 0.44-0.65 | - | 0.80-1.25 | - | - |

## Mechanical Properties

| Yeild Stress (O.2% Offset) | | Tensile Strength | | | Elongation |
|---|---|---|---|---|---|
| min MPa | min MPa | min MPa | max MPa | min ksi | A5 min |
| 220 | 32 | 415 | - | 60 | 30 |

## 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 ASTM A213 Grade T12 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

Alloy Steel Tubing, Chrome Moly Tubing, Alloy Steel Seamless Tubing, Astm A213 Grade T12 Seamless Tubing, T12 Tubing, Seamless Steel Tubing, Ferritic Alloy Steel Tubing, Astm A213 Seamless Tubing

## Equivalent Designation

| | |
|---|---|
| European Standard<br>EN 13CrMo4-5 Grade 10216 - 2 | DIN Specification<br>DIN 17175 Grade 13 CrMo 44 |
| ASME Specification<br>ASME SA 213 Grade T12 | ASTM Specification<br>ASTM A213 Grade T12 |
| British Standard<br>BS 3059 : Part 2 Grade 620 | Japanese Standard<br>JIS STBA22 Grade G3462 |

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

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