

## Ferritic Piping Solutions

sales@ferropipe.com

FerroPipe

## Seamless Tubes

## NFA 49-213 Grade TU 42C

CARBON  
STEEL

Seamless unalloyed and mo-cr-mo alloy steel tubes for high temperature service

## Material Description

NFA 49-213 Grade TU 42C Carbon Steel Seamless Tubes are Low Carbon Steel Tubes with max 0.22 % carbon content with combination of 0.40-1.05 % manganese. NFA 49-213 Grade TU 42C Carbon Steel Seamless Tubes are also known as Also known as mild steel pipes and tubes. NFA 49-213 Grade TU 42C Tubes are low-cost Tubes easy to form and shape. These pipes are manufactured as per NFA 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 |
|----------|-----------|-----------|-------------|---------|------------|--------|----------|----------|----------------|
| max 0.22 | 0.07-0.40 | 0.40-1.05 | 0.04        | 0.04    | -          | -      | -        | max 0.25 | Sn max 0.03    |

## Mechanical Properties

| Yield Stress (0.2% Offset) |         | Tensile Strength |         |         | Elongation |
|----------------------------|---------|------------------|---------|---------|------------|
| min MPa                    | min MPa | min MPa          | max MPa | min ksi | A5 min     |
| 235                        | -       | 410              | 510     | -       | -          |

## 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 NFA 49-213 Grade TU 42C 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

-

## Related Keywords

Carbon Steel Tube, Ferritic Steel Tube, Carbon Steel Seamless Tube, Nfa 49-213 Grade Tu 42C Seamless Tube, Tu 42C Tube, Seamless Steel Tube, Ferritic Carbon Steel Tube, Nfa 49-213 Seamless Tube, Seamless Tube, Steel Tube

## Equivalent Designation

|                           |                         |
|---------------------------|-------------------------|
| European Standard         | DIN Specification       |
| -                         | DIN 17175 Grade St 45-8 |
| ASME Specification        | ASTM Specification      |
| ASME SA 106 Grade Grade B | ASTM A106 Grade Grade B |
| British Standard          | Japanese Standard       |
| BS 3059-2 Grade 440       | -                       |

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 &amp; Dealers of Carbon Steel Pipes &amp; Alloy Steel Pipes

sales@ferropipe.com  
00-91-22-66157017  
www.FerroPipe.com  
Copyright 2015 FerroPipe