Ferritic Piping Solutions

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FerroPipE

# Seamless Tubes

# PN-H 84023-07 Grade R45

CARBON STEEL

Steel for higher purposes steel tubes

## Material Description

PN-H 84023-07 Grade R45 Carbon Steel Seamless Tubes are Low Carbon Steel Tubes with 0.16-0.22 % carbon content with combination of 0.60-1.2 % manganese.PN-H 84023-07 Grade R45 Carbon Steel Seamless Tubes are also known as Also known as mild steel pipes and tubes.PN-H 84023-07 Grade R45 Tubes are low-cost Tubes easy to form and shape.These pipes are manufactured as per PN-H Specification and commercially referred as cs pipes or ms pipes.Low Carbon Steel Pipes are not as hard as hig carbon steel pipes,Though carburizing can increase its surface hardness.

## Chemical Properties

| Carbon | Silicon | Manganese | Phosphorous | Sulphur | Molybdenum | Nickel | Chromium | Copper | Other Elements |
|---|---|---|---|---|---|---|---|---|---|
| 0.16-0.22 | 0.12-0.35 | 0.60-1.2 | 0.04 | 0.04 | max 0.10 | max 0.30 | max 0.30 | max 0.30 | - |

## Mechanical Properties

| Yeild Stress (O.2% Offset) | | Tensile Strength | | | Elongation |
|---|---|---|---|---|---|
| min MPa | min MPa | min MPa | max MPa | min ksi | A5 min |
| 255 | - | 430 | - | - | 22 |

## 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 PN-H 84023-07 Grade R45 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 Tube, Ferritic Steel Tube, Carbon Steel Seamless Tube, Pn-H 84023-07 Grade R45 Seamless Tube, R45 Tube, Seamless Steel Tube, Ferritic Carbon Steel Tube, Pn-H 84023-07 Seamless Tube, Seamless Tube, Steel Tube

## Equivalent Designation

| | |
|---|---|
| European Standard<br>- | DIN Specification<br>- |
| ASME Specification<br>- | ASTM Specification<br>- |
| British Standard<br>- | Japanese Standard<br>- |

**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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