



Material - BS 10216-5 EN X 3 CrNiMoBN 17-13-3

Standard Specification for Seamless Steel Tubes for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - BS 10216-5 Seamless Steel Tubes for Pressure Purposes

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Steel

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|---|--|
| Carbon | C % | 0.040 max. | Solution Annealing | |
| Silicon | Si % | 0.750 max. | | |
| Manganese | Mn % | 2.000 max. | | |
| Phosphorus | P % | 0.035 max. | | |
| Sulphur | S % | 0.015 max. | | |
| Chromium | Cr % | 16.000 - 18.000 | | |
| Nickel | Ni % | 12.000 - 14.000 | | |
| Molybdenum | Mo % | 2.000 - 3.000 | | |
| Nitrogen | N % | 0.100 - 0.180 | | |
| Boron | B % | 0.0015 - 0.0050 | | |
| Iron | Fe % | Balance | Mechanical Properties Tensile Strength in Mpa 550 - 750 Yield Strength in Mpa 260 min. Elongation in % 30 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 80 min. @ RT | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 1.491 | EN | European Union | Tube |
| 1.491 | BS | British | Steel and Flat |
| 1.491 | DIN | Germany | Steel and Flat |
| - | - | #N/A | - |
| - | - | - | - |
| - | - | - | - |
| - | - | #N/A | - |

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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