GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - BS EN 10216-4 11MnNi5-3 I 1.6212

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group - Ferrous Mild Steel Alloys**

**Sub Group - BS EN 10216-4 11MnNi5-3 I 1.6212 Seamless Steel Tubes for Pressure Purposes**

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

**Grade Belongs to the Industry - Tubing**

| Chemical Composition | | |
|---|---|---|
| Carbon | C % | 0.140 max. |
| Silicon | Si % | 0.500 max. |
| Manganese | Mn % | 0.700 - 1.500 |
| Phosphorus | P % | 0.025 max. |
| Sulphur | S % | 0.010 max. |
| Nickel | Ni % | 0.300 - 0.800 |
| Aluminium | Al % | 0.020 min. |
| Copper | Cu % | 0.300 max. |
| Niobium | Nb % | 0.050 max. |
| Vanadium | V % | 0.050 max. |
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |

| Heat Treatment |
|---|
| As-Raw or Normalizing |

| Mechanical Properties | |
|---|---|
| Tensile Strength in Mpa | 410 - 530 |
| Yield Strength in Mpa | 285 min. |
| Elongation in % | 24 min. |
| Reduction of Area in % | - |
| Hardness in HB | - |
| Impact in Joule | 70 @ RT |

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| Cross Reference Table | | | |
|---|---|---|---|
| **Material** | **Standard** | **Country** | **Grade Belong to the Industry** |
| 10028-4 1.6212 | EN | European Union | Steel |
| 10028-4 11 MnNi 5 3 | EN | European Union | Steel |
| 17280 1.6212 | DIN | Germany | Steel |
| 17173 1.6212 | DIN | Germany | Steel |
| 17174 1.6212 | DIN | Germany | Steel |
| EN 10028-4 1.6212 | DIN | Germany | Steel |
| EN 10028-4 11 MnNi 5-3 | B.S. | United Kingdom | Steel |

**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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