GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

# Material - BS EN 10216-3 P275NL1 I 1.0488

## Standard Specification for Seamless Steel Tubes for Pressure Purposes

**Group - Ferrous Mild Steel Alloys**

**Sub Group - BS EN 10216-3 P275NL1 I 1.0488 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 % | 0.160 max. |
| Silicon | Si % | 0.400 max. |
| Manganese | Mn % | 0.500 - 1.500 |
| Phosphorus | P % | 0.025 max. |
| Sulphur | S % | 0.008 max. |
| Chromium | Cr % | 0.300 max. |
| Molybdenum | Mo % | 0.080 max. |
| Nickel | Ni % | 0.500 max. |
| Aluminium | Al % | 0.020 min. |
| Copper | Cu % | 0.300 max. |
| Nitrogen | N % | 0.020 max. |
| Niobium | Nb % | 0.050 max. |
| Titanium | Ti % | 0.040 max. |
| Vanadium | V % | 0.050 max. |
| Nb + Ti + V | Nb% + Ti% + V% | 0.050 max. |

| Chemical Composition | | |
|---|---|---|
| Iron | Fe % | Balance |
| - | - | - |
| - | - | - |
| - | - | - |
| - | - | - |
| **Heat Treatment** | | |
| As-Cast or Normalizing | | |
| **Mechanical Properties** | | |
| Tensile Strength in Mpa | 390 - 530 | |
| Yield Strength in Mpa | 275 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** |
| EN 10028-3 P 275 NL 1 | AFNOR NF | France | Steel |
| EN 10028-3 P 275 NL 1 | UNI | Italy | Steel |
| 17179 1.0488 | DIN | Germany | Steel and Tubing |
| EN 10028-3 P275NL1 | DIN | Germany | Steel |
| EN 10028-3 P 275 NL 1 | B.S. | United Kingdom | Steel |
| P 275 NL 1 | NBN | Belgium | Steel |
| 9328-4 PL 255 TN | ISO | International | 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**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.