

Material: GOST 110G13L

Standard Specification for Rails type P65,P50, P43

Group: Ferrous Austenitic Manganese Steel Alloy

Sub Group: GOST 110G13L Rails type P65,P50, P43

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|---|--|
| Carbon | C % | 1.100 - 1.300 | Annealing or Normalizing or Hardening + Tempering | |
| Silicon | Si % | 0.300 - 0.900 | | |
| Manganese | Mn % | 11.500 - 16.500 | | |
| Phosphorus | P % | 0.090 max. | | |
| Sulphur | S % | 0.020 max. | | |
| Chromium | Cr % | 1.000 max. | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties Tensile Strength in Mpa 654 - 830 Yield Strength in Mpa 360 - 380 Elongation in % 34 - 53 Reduction of Area in % - Hardness in HB 186-229 Impact in Joule 300 J @ RT | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| BW10 | BS | British | Casting |
| X 120 Mn 12 | DIN | Germany | Steel |
| Z 120 M 12 | AFNOR NF | France | Steel |
| SCMnH 1 | JIS | Japan | Casting |
| G X 120 Mn 12 | UNI | Italy | Casting |
| J91109 | UNS | USA | Casting |
| A128 Grade A | ASTM | USA | Casting |

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: info@icastllp.com