



Material - BDS 1.5815

Standard Specification for Mild Steel Alloys Bar and Rod

Group - Ferrous Mild Steel Alloys

Sub Group - BDS 1.5815 Mild Steel Alloys Bar and Rod

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

Grade Belongs to the Industry - Bar and Rod

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|---------------|--|--|
| Carbon | C % | 0.300 - 0.370 | As Raw or Annealing or Normalizing or Hardening and Tempering | |
| Silicon | Si % | 0.400 max. | | |
| Manganese | Mn % | 0.600 - 0.900 | | |
| Phosphorus | P % | 0.025 max. | | |
| Sulphur | S % | 0.025 max. | | |
| Chromium | Cr % | 0.800 - 1.100 | | |
| Nickel | Ni % | 1.200 - 1.600 | | |
| Iron | Fe % | Balance | | |
| - | - | - | Mechanical Properties Tensile Strength in Mpa 780 - 1080 Yield Strength in Mpa 640 min. Elongation in % 12 min. Reduction of Area in % 40 min. Hardness in BHN 223 max. Impact in Joule 35 J @ RT | |
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| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| 35NiCr6 | EN | European Union | Bar and Rod |
| 1.5815 | EN | European Union | Bar and Rod |
| 1.5815 | ONORM | Australia | Bar and Rod |
| 35 NiCr 6 | ONORM | Australia | Bar and Rod |
| 1.5815 | NBN | Belgium | Bar and Rod |
| 35 NiCr 6 | NBN | Belgium | Bar and Rod |
| 35 NiCr 6 | BDS | Bulgaria | Bar and Rod |

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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