



Material - SAE 5764

Standard Specification for Steel, Corrosion-Resistant, Bars, Wire, Forgings, Extrusions and Rings Solution Heat Treated

Group - Ferrous Stainless Steel Alloys

Sub Group - SAE 5764 Steel, Corrosion-Resistant, Bars, Wire, Forgings, Extrusions and Rings Solution Heat Treated

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

Grade Belongs to the Industry - Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|-------------------------|----------|
| Carbon | C % | 0.060 max. | Solution Annealing | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 4.000 - 6.000 | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 20.500 - 23.500 | | |
| Nickel | Ni % | 11.500 - 13.500 | | |
| Molybdenum | Mo % | 1.500 - 3.000 | | |
| Vanadium | V % | 0.100 - 0.300 | | |
| Niobium | Nb % | 0.100 - 0.300 | | |
| Nitrogen | N % | 0.200 - 0.400 | Mechanical Properties | |
| Iron | Fe % | Balance | Tensile Strength in Mpa | 690 min. |
| - | - | - | Yield Strength in Mpa | 379 min. |
| - | - | - | Elongation in % | 35 min. |
| - | - | - | Reduction of Area in % | 55 min. |
| - | - | - | Hardness in HRC | 20 min. |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| SA-351 Grade CG6MMN | ASME | USA | Casting |
| A 743 CG6MMN | ASTM | USA | Casting |
| A351 CG6MMN | ASTM | USA | Casting |
| J93790 | UNS | USA | Casting |
| 1.3956 | ISO | International | Casting |
| GX4CrNiMnN22-12-5 | ISO | International | Casting |
| CG6MMN | KS | Korea | Casting |

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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