

Material: AMS 5400

Standard Specification for Steel, Corrosion Resistant, Investment Casting

Group: Ferrous Stainless Steel Alloys

Sub Group: AMS 5400 Steel, Corrosion Resistant, Investment Casting

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

Grade Belongs to the Industry: Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|---|-----------|
| Carbon | C % | 0.050 max. | Normalizing or Annealing or Hardening + Tempering | |
| Silicon | Si % | 0.500 - 1.000 | | |
| Manganese | Mn % | 0.600 max. | | |
| Phosphorus | P % | 0.025 max. | | |
| Sulphur | S % | 0.025 max. | | |
| Chromium | Cr % | 14.000 - 15.500 | | |
| Nickel | Ni % | 4.200 - 5.000 | | |
| Copper | Cu % | 2.500 - 3.200 | | |
| Nitrogen | N % | 0.050 max. | | |
| Tantalum | Ta % | 0.050 max. | | |
| Niobium | Nb % | 0.150 - 0.300 | Mechanical Properties | |
| Iron | Fe % | Balance | Tensile Strength in Mpa | 1172 min. |
| - | - | - | Yield Strength in Mpa | 1034 min. |
| - | - | - | Elongation in % | 6 min. |
| - | - | - | Reduction of Area in % | - |
| - | - | - | Hardness in BHN | 38-47 |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| J92110 | UNS | USA | Casting |
| UNS J92130 | UNS | USA | Casting |
| SA-747 CB7Cu-2 | ASME | USA | Casting |
| 5356 | AMS | USA | Casting |
| AMS 5346 | SAE | USA | Casting |
| 5357 | AMS | USA | Casting |
| A747 CB7CU-2 | ASTM | USA | Casting |

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