

Material: ASTM A747 Grade CB7Cu-2 (H925)

Standard Specification for Steel Castings, Stainless, Precipitation Hardening

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A747 / A747M Steel Castings, Stainless, Precipitation Hardening

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

Belongs to the Industry: Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|-----------------|---|--|
| Carbon | C % | 0.070 max. | Normalising or Annealing or Hardening + Tempering | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 0.700 max. | | |
| Phosphorus | P % | 0.035 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 14.000 - 15.500 | | |
| Nickel | Ni % | 4.500 - 5.500 | | |
| Copper | Cu % | 2.500 - 3.200 | | |
| Niobium | Nb % | 0.150 - 0.350 | | |
| Nitrogen | N % | 0.050 max. | | |
| Iron | Fe % | Balance | Mechanical Properties Tensile Strength in Mpa 1205 min. Yield Strength in Mpa 1035 min. Elongation in % 5 min. Reduction of Area in % - Hardness in BHN 375 min. Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| J92110 | UNS | USA | Casting |
| J92130 | UNS | USA | Casting |
| SA-747 CB7Cu-2 | ASME | USA | Casting |
| 5356 | AMS | USA | Casting |
| AMS 5346 | SAE | USA | Casting |
| 5400 | AMS | USA | Casting |
| 5357 | AMS | USA | Casting |

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