



Material - ASTM A747 Grade CB7Cu-1 (H1150M)

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 % | 15.500 17.700 | | |
| Nickel | Ni % | 3.600 - 4.600 | | |
| 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 - Yield Strength in Mpa - Elongation in % - Reduction of Area in % - Hardness in BHN 310 max. Impact in Joule - | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |
| - | - | - | | |

| Cross Reference Table | | | |
|-----------------------|----------|----------------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| J92180 | UNS | USA | Casting |
| SA-747 CB7Cu-1 | ASME | USA | Casting |
| 17-4PH | SAE | USA | Steel |
| Z 7 CNU 17-04 | AFNOR NF | France | Steel |
| 5622 | AMS | USA | Bar, Wire, Tube and Forging |
| X 5 CrNiCuNb 16-4 | DIN | Germany | Steel |
| X 5 CrNiCuNb 16-4 | EN | European Union | Forging |

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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