

Material: ASTM A487 4(C)

Standard Specification for Steel Castings Suitable for Pressure Service

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A487 / AA87M Steel Castings Suitable for Pressure Service

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

Belongs to the Industry: Casting

| Chemical Composition | | | Heat Treatment | |
|----------------------|------|---------------|---|----------|
| Carbon | C % | 0.300 max. | Annealing or Normalising or Hardening + Tempering | |
| Silicon | Si % | 0.800 max. | | |
| Manganese | Mn % | 1.000 max. | | |
| Phosphorus | P % | 0.035 max. | | |
| Sulphur | S % | 0.035 max. | | |
| Chromium | Cr % | 0.400 - 0.800 | | |
| Nickel | Ni % | 0.400 - 0.800 | | |
| Molybdenum | Mo % | 0.150 - 0.300 | | |
| Copper | Cu % | 0.500 max. | | |
| Vanadium | V % | 0.030 max. | | |
| Tungsten | W % | 0.100 max. | Mechanical Properties | |
| Other | Ot % | 0.600 max. | Tensile Strength in Mpa | 620 min. |
| Iron | Fe % | Balance | Yield Strength in Mpa | 415 min. |
| - | - | - | Elongation in % | 18 min. |
| - | - | - | Reduction of Area in % | 35 min. |
| | | | Hardness in HB | 235 min. |
| | | | Impact in Joule | - |

| Cross Reference Table | | | |
|-----------------------|----------|---------|-------------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| J13047 | UNS | USA | Casting |
| 8620 | AISI | USA | Forging, Bar, Wire, and Shape |
| 8620 | SAE | USA | Bar, Wire, Sheet, Strip and Forging |
| 8620 | AMS | USA | Bar and Forging |
| J12048 | UNS | USA | Casting |
| A487 4B | ASTM | USA | Casting |
| A487 4D | ASTM | USA | Casting |

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: info@icastllp.com