



Material - ASME SA-487 Grade CA6NM Class B

Standard Specification for Low Alloy Steel and Martensitic Stainless Steel Castings Suitable for Pressure Containing Parts

Group - Ferrous Stainless Steel Alloys

Sub Group - ASME SA-487 Grade CA6NM Class B Low Alloy Steel and Martensitic Stainless Steel Castings Suitable for Pressure Containing Parts

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. | Heating + Reheating + Aging | |
| Silicon | Si % | 1.000 max. | | |
| Manganese | Mn % | 1.000 max. | | |
| Phosphorus | P % | 0.040 max. | | |
| Sulphur | S % | 0.030 max. | | |
| Chromium | Cr % | 11.500 - 14.000 | | |
| Nickel | Ni % | 3.500 - 4.500 | | |
| Molybdenum | Mo % | 0.400 - 1.000 | | |
| Vanadium | V % | 0.050 max. | | |
| Tungsten | W % | 0.100 max. | | |
| Copper | Cu % | 0.500 max. | Mechanical Properties | |
| Iron | Fe % | Balance | Tensile Strength in Mpa | 690 min. |
| - | - | - | Yield Strength in Mpa | 515 min. |
| - | - | - | Elongation in % | 17 min. |
| - | - | - | Reduction of Area in % | 35 min. |
| - | - | - | Hardness in BHN | 255 max. |
| - | - | - | Impact in Joule | - |

| Cross Reference Table | | | |
|--------------------------------|----------|---------|------------------------------|
| Material | Standard | Country | Grade Belong to the Industry |
| ASME SA-487 CA6NM _a | ASME | USA | Casting |
| ASME SA-352 CA6NM | ASME | USA | Casting |
| ASME SA-487 Class CA6NM | ASME | USA | Casting |
| A 352 CA6NM | ASTM | USA | Casting |
| A 356 CA6NM | ASTM | USA | Casting |
| A 487 CA6NM | ASTM | USA | Casting |
| A743 CA6NM | ASTM | USA | 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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