

## Material: ASTM A487 9(B)

### 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 %	0.050 - 0.330	Annealing or Normalising or Hardening + Tempering															
Silicon	Si %	0.800 max.																
Manganese	Mn %	0.600 - 1.000																
Phosphorus	P %	0.035 max.																
Sulphur	S %	0.035 max.																
Chromium	Cr %	0.750 - 1.100																
Nickel	Ni %	0.500 max.																
Molybdenum	Mo %	0.150 - 0.300																
Tungsten	W %	0.100 max.																
Vanadium	V %	0.030 max.																
Copper	Cu %	0.500 max.																
Other	Ot %	1.000 max.																
Iron	Fe %	Balance																
-	-	-	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>725 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>585 min.</td> </tr> <tr> <td>Elongation in %</td> <td>16 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>35 min.</td> </tr> <tr> <td>Hardness in BHN</td> <td>-</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	725 min.	Yield Strength in Mpa	585 min.	Elongation in %	16 min.	Reduction of Area in %	35 min.	Hardness in BHN	-	Impact in Joule	-
Mechanical Properties																		
Tensile Strength in Mpa	725 min.																	
Yield Strength in Mpa	585 min.																	
Elongation in %	16 min.																	
Reduction of Area in %	35 min.																	
Hardness in BHN	-																	
Impact in Joule	-																	
-	-	-																

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13345	UNS	USA	Casting
A487 9A	ASTM	USA	Casting
A487 9C	ASTM	USA	Casting
A487 9D	ASTM	USA	Casting
A487 9E	ASTM	USA	Casting
SA-487 9A	ASME	USA	Casting
SA-487 9B	ASME	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](mailto:info@icastllp.com)