

Material: ASTM A487 11(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 - 0.200	Annealing or Normalising or Hardening + Tempering															
Silicon	Si %	0.600 max.																
Manganese	Mn %	0.500 - 0.800																
Phosphorus	P %	0.035 max.																
Sulphur	S %	0.035 max.																
Chromium	Cr %	0.500 - 0.800																
Nickel	Ni %	0.700 - 1.100																
Molybdenum	Mo %	0.450 - 0.650																
Copper	Cu %	0.500 max.																
Vanadium	V %	0.030 max.																
Tungsten	W %	0.100 max.																
Other	Ot %	0.500 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 - 895</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>585 min.</td> </tr> <tr> <td>Elongation in %</td> <td>17 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 - 895	Yield Strength in Mpa	585 min.	Elongation in %	17 min.	Reduction of Area in %	35 min.	Hardness in BHN	-	Impact in Joule	-
Mechanical Properties																		
Tensile Strength in Mpa	725 - 895																	
Yield Strength in Mpa	585 min.																	
Elongation in %	17 min.																	
Reduction of Area in %	35 min.																	
Hardness in BHN	-																	
Impact in Joule	-																	
-	-	-																

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J12082	UNS	USA	Casting
A487 11A	ASTM	USA	Casting
J12084	UNS	USA	Casting
1.8719	DIN	Germany	Steel
1.8920	EN	European Union	Steel
9386 Type 12	AMS	USA	Casting
K11576	UNS	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