

Material: ASTM A487 13(A)

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 %	0.600 max.																
Manganese	Mn %	0.800 - 1.100																
Phosphorus	P %	0.035 max.																
Sulphur	S %	0.035 max.																
Chromium	Cr %	0.400 max.																
Nickel	Ni %	1.400 - 1.750																
Molybdenum	Mo %	0.200 - 0.300																
Copper	Cu %	0.500 max.																
Vanadium	V %	0.030 max.																
Tungsten	W %	0.100 max.																
Other	Ot %	0.750 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>620 - 795</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>415 min.</td> </tr> <tr> <td>Elongation in %</td> <td>18 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	620 - 795	Yield Strength in Mpa	415 min.	Elongation in %	18 min.	Reduction of Area in %	35 min.	Hardness in BHN	-	Impact in Joule	-
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13080	UNS	USA	Casting
A487 13B	ASTM	USA	Casting
SA-487 13A	ASME	USA	Casting
SA-487 13B	ASME	USA	Casting
A732 1Q	ASTM	USA	Casting
J24054	UNS	USA	Casting
4340	AISI	USA	Forging , Bar, Wire and Shape

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