



Material - ASTM A487 2(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 - 1.400																
Phosphorus	P %	0.035 max.																
Sulphur	S %	0.035 max.																
Chromium	Cr %	0.350 max.																
Nickel	Ni %	0.500 max.																
Molybdenum	Mo %	0.100 - 0.300																
Copper	Cu %	0.500 max.																
Vanadium	V %	0.030 max.																
Tungsten	W %	0.100 max.	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>620 min.</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>450 min.</td> </tr> <tr> <td>Elongation in %</td> <td>22 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>40 min.</td> </tr> <tr> <td>Hardness in HB</td> <td>235 min.</td> </tr> <tr> <td>Impact in Joule</td> <td>-</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	620 min.	Yield Strength in Mpa	450 min.	Elongation in %	22 min.	Reduction of Area in %	40 min.	Hardness in HB	235 min.	Impact in Joule	-
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Impact in Joule	-																	
Other	Ot %	1.000 max.																
Iron	Fe %	Balance																
-	-	-																
-	-	-																

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13005	UNS	USA	Casting
1.0457	EN	European Union	Pipes
1.0484	DIN	Germany	Pipes
13030	CSN	Czech Republic	Steel
20 MB5	AFNOR NF	France	Cold Rolled and Strips
230 - 45000	JIS	Japan	Casting
3	AS	Australia	Hot Rolled Bar

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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