GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-487 Grade 8 Class A (8N)

Standard Specification for Steel Castings Suitable for Pressure Service

Group - Ferrous Mild Steel Alloys

Sub Group - ASME SA-487 Grade 8 Class A (8N) Steel Castings Suitable for Pressure Service

Application - Intended for Valve, Pump, General Engineering, Automotive and other Industries

Grade Belongs to the Industry - Castings

Chemical Composition		
Carbon	C %	0.050 - 0.200
Manganese	Mn %	0.500 - 0.900
Phosphorus	P %	0.040 max.
Sulphur	S %	0.045 max.
Silicon	Si %	0.800 max.
Vanadium	V %	0.030 max.
Molybdenum	Mo %	0.900 - 1.100
Copper	Cu %	0.500 max.
Chromium	Cr %	2.000 - 2.750
Tungsten	W %	0.100 max.
Other	Ot %	0.600 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing

Mechanical Properties	
Tensile Strength in Mpa	585 - 760
Yield Strength in Mpa	380 min.
Elongation in %	20 min.
Reduction of Area in %	35 min.
Hardness in HRC	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
J12084	UNS	USA	Steel and Castings
K11576	UNS	USA	Steel
S 690 G 1 QL	EN	European Union	Steel
1.892	EN	European Union	Steel
15 MnCrMo 3-2	DIN	Germany	Steel
A 517 Grade F	ASTM	USA	Steel and Plate
A 487 Grade 7	ASTM	USA	Steel and 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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.