GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-487 Grade 2 Class C (2Q)

Standard Specification for Steel Castings Suitable for Pressure Service

Group - Ferrous Mild Steel Alloys

Sub Group - ASME SA-487 Grade 2 Class C (2Q) 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 %	0.300 max.
Manganese	Mn %	1.000 - 1.400
Phosphorus	P %	0.040 max.
Sulphur	S %	0.045 max.
Silicon	Si %	0.800 max.
Vanadium	V %	0.030 max.
Molybdenum	Mo %	0.100 - 0.300
Copper	Cu %	0.500 max.
Nickel	Ni %	0.500 max.
Chromium	Cr %	0.350 max.
Tungsten	W %	0.100 max.
Other	Ot %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching & Tempering

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 HRC	235 max.
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
J13005	UNS	USA	Steel and Castings
SA-487 Class 2N	ASME	USA	Steel and Castings
EN 10213-2 GP 240 GR	UNI	Italy	Steel
3100 AL 3	B.S.	United Kingdom	Steel and Castings
3755 270-480W	ISO	International	Steel and Castings
3755 230-450W	ISO	International	Steel and Castings
G7821 270-480 W	JIS	Japan	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.