GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASME SA-487 Grade 6 Class B (6Q)

Standard Specification for Steel Castings Suitable for Pressure Service

Group - Ferrous Mild Steel Alloys

Sub Group - ASME SA-487 Grade 6 Class B (6Q) 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 - 0.380
Manganese	Mn %	1.300 - 1.700
Phosphorus	P %	0.040 max.
Sulphur	S %	0.045 max.
Silicon	Si %	0.800 max.
Vanadium	V %	0.030 max.
Molybdenum	Mo %	0.300 - 0.400
Copper	Cu %	0.500 max.
Nickel	Ni %	0.400 - 0.800
Chromium	Cr %	0.400 - 0.800
Tungsten	W %	0.100 max.
Other	Ot %	0.600 max.
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment
Quenching & Tempering

Mechanical Properties	
Tensile Strength in Mpa	825 min.
Yield Strength in Mpa	655 min.
Elongation in %	12 min.
Reduction of Area in %	25 min.
Hardness in HRC	-
Impact in Joule	-

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Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
J13855	UNS	USA	Steel and Castings
SA-487 Grade 6A	ASME	USA	Steel and Castings
SA-487 Grade 6B	ASME	USA	Steel and Castings
A 487 Grade 6	ASTM	USA	Steel and Castings
SEW 081 1.1106	DIN	Germany	Steel
EN 10028-3 P 355 NL 2	UNI	Italy	Steel
EN 10028-3 P 355 NL 2	B.S.	United Kingdom	Steel

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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