



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - ASTM A757 Grade B4N B4Q

Standard Specification for Steel Castings, Ferritic and Martensitic, for Pressure-Containing and Other Applications, for Low-Temperature Service

Group - Ferrous Mild Steel Alloys

Sub Group - ASTM A757 / A757M Steel Castings, Ferritic and Martensitic, for Pressure-Containing and Other Applications, for Low-Temperature Service

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 max.	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	0.400 max.		
Nickel	Ni %	4.000 - 5.000		
Molybdenum	Mo %	0.250 max.		
Vanadium	V %	0.030 max.		
Copper	Cu %	0.500 max.		
Other	Ot %	1.000 max.	Mechanical Properties Tensile Strength in Mpa 485 min. Yield Strength in Mpa 275 min. Elongation in % 24 min. Reduction of Area in % 35 min. Hardness in BHN - Impact in Joule 20 min. @ -115°C	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
GX 10 Ni 5	DIN	Germany	Casting
Ao 10 Ni 20	MSZ	Hungary	Casting
2512	SAE	USA	Steel
AM 8 Ni 18	UNE	Spain	Casting
J41501	UNS	USA	Casting
1.5681	DIN	Germany	Casting
E2512	AISI	USA	Wire, Rod, Tube and Forging

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.

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