

Material - ASTM A757 Grade E2N3, E2Q3

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 Ferritic and Martensitic Steel Castings for Pressure-Containing and 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 %	0.200 max.	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.400 - 0.700		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	1.500 - 2.000		
Nickel	Ni %	2.750 - 3.900		
Molybdenum	Mo %	0.400 - 0.600		
Vanadium	V %	0.030 max.	Mechanical Properties	
Copper	Cu %	0.500 max.	Tensile Strength in Mpa	795 - 1000
Tungsten	W %	0.100 max.	Yield Strength in Mpa	690 min.
Other	Ot %	0.700 max.	Elongation in %	13 min
Iron	Fe %	Balance	Reduction of Area in %	30 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	20 min. @ -73°C

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J42220	UNS	USA	Casting
1.6783	EN	European Union	Casting
1.6783	DIN	Germany	Casting
G 19 NiCrMo 12 6	EN	European Union	Casting
G 19 NiCrMo 12 6	DIN	Germany	Casting
A757 Grade E2N1, E2Q1	ASTM	USA	Casting
A757 Grade E2N2, E2Q2	ASTM	USA	Casting

For any further inquiries, please do not hesitate to contact us. You may visit our website at AMTECH TECHNOCAST PVT. LTD., call us at [+91 9879817994](tel:+919879817994), or email us at manish@amtechtechnocast.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.