

Material - ASTM A757 Grade E1Q

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 %	0.220 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 %	1.350 - 1.850		
Nickel	Ni %	2.500 - 3.500		
Molybdenum	Mo %	0.350 - 0.600		
Vanadium	V %	0.030 max.	Mechanical Properties	
Copper	Cu %	0.500 max.	Tensile Strength in Mpa	620 min.
Other	%	0.700 max.	Yield Strength in Mpa	450 min.
Iron	Fe %	Balance	Elongation in %	22 min.
-	-	-	Reduction of Area in %	40 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	41 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

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