

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.		
Copper	Cu %	0.500 max.		
			Mechanical Properties	
Tungsten	W %	0.100 max.	Tensile Strength in Mpa	795 - 1000
Other	Ot %	0.700 max.	Yield Strength in Mpa	690 min.
Iron	Fe %	Balance	Elongation in %	13 min
-	-	-	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

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