

Material: ASTM A757 Grade A1Q

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 %	0.300 max.	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	0.400 max.		
Nickel	Ni %	0.500 max.		
Molybdenum	Mo %	0.250 max.		
Vanadium	V %	0.030 max.		
Copper	Cu %	0.500 max.		
Other	Ot %	1.000 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
			Mechanical Properties	
			Tensile Strength in Mpa	450 min.
			Yield Strength in Mpa	240 min.
			Elongation in %	24 min.
			Reduction of Area in %	35 min.
			Hardness in BHN	-
			Impact in Joule	17 min. @ -46°C

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A 216 WCB	ASTM	USA	Casting
SA 216 WCB	ASME	USA	Casting
J03002	UNS	USA	Casting
1.0619	DIN	Germany	Casting
1.0619	EN	European Union	Casting
A660 WCB	ASTM	USA	Centrifugal Casting
SA 660 WCB	ASME	USA	Centrifugal Casting

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