

## Material: DIN 1.0619

### Standard Specification for Steel Castings for Pressure Purposes; Steel Grades for Use at Room Temperature and Elevated Temperatures

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** DIN 1.0619 Steel Castings for Pressure Purposes; Steel Grades for Use at Room Temperature and Elevated Temperatures

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

**Grade Belongs to the Industry:** Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.180 - 0.230	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 -1.200		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	0.300 max.		
Nickel	Ni %	0.400 max.		
Molybdenum	Mo %	0.120 max.		
Copper	Cu %	0.300 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	420 - 600
-	-	-	Yield Strength in Mpa	240 min.
-	-	-	Elongation in %	22 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	27 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A757 A 1 Q	ASTM	USA	Casting
J03002	UNS	USA	Casting
SA 216 WCB	ASME	USA	Casting
1.0619	EN	European Union	Casting
A 660 WCB	ASTM	USA	Fusion Welding, Bending and Forming
SA-660 WCB	ASME	USA	Centrifugal Casting
A216 WCB	ASTM	USA	Casting

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