

# Material: DIN 1.7379

## 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 1.7379 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 %	0.130 - 0.200	
Silicon	Si %	0.600 max.	
Manganese	Mn %	0.500 - 0.900	
Phosphorus	P %	0.025 max.	
Sulphur	S %	0.020 max.	
Chromium	Cr %	2.000 - 2.500	
Molybdenum	Mo %	0.900 - 1.200	
Chromium	Cr %	2.000 - 2.500	
Copper	Cu %	0.300 max.	Normalizing or Annealing or Hardening + Tempering
Vanadium	V %	0.050 max.	
Nickel	Ni %	0.400 max.	
Iron	Fe %	Balance	
-	-	-	
-	-	-	
-	-	-	

Mechanical Properties	
Tensile Strength in Mpa	590 - 900
Yield Strength in Mpa	400 min.
Elongation in %	15 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	40 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J22090	UNS	USA	Casting
1.7383	EN	European Union	Forging
10 CD 9.10	AFNOR NF	France	Forging
622	BS	British	Bar
GS 18 CrMo 9 10	ONORM	Australia	Steel
8 CrMoNiNb 9-10	DIN	Germany	Steel
A757 D1N1 D1Q1	ASTM	USA	Casting

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