

Material: EN 1.4825

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: EN 1.4825 Steel Castings for General Engineering Purposes

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 - 0.350	As Cast or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	0.500 - 2.500		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.000 - 19.000		
Molybdenum	Mo %	0.500 max.		
Cobalt	Co %	1.000 max.		
Copper	Cu %	0.250 max.		
Niobium	Nb %	0.600 max.		
			Mechanical Properties	
Vanadium	V %	0.120 max.	Tensile Strength in Mpa	450 min.
Tungsten	W %	0.600 max.	Yield Strength in Mpa	230 min.
Iron	Fe %	Balance	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
302C35	BS	British	Casting
Z 25CN20.10-M	AFNOR NF	France	Casting
1.4825	ONORM	Australia	Casting
GX25CrNiSi18-9	ONORM	Australia	Casting
GX25CrNiSi18-9	BS	British	Casting
GX25CrNiSi18-9	EN	European Union	Casting
1.4825	BDS	Bulgaria	Casting

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