

Material: BS 3100 Grade 310C45

Standard Specification for Steel Castings for General Engineering Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: BS 3100 Grade 310C45 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 %	0.500 max.	As Cast or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	3.000 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.050 max.		
Sulphur	S %	0.050 max.		
Chromium	Cr %	22.000 - 27.000		
Molybdenum	Mo %	1.500 max.		
Nickel	Ni %	17.000 - 22.000		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	400 min.
-	-	-	Yield Strength in Mpa	200 min.
-	-	-	Elongation in %	8 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	180 min.
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Z 40CN25.20-M	AFNOR NF	France	Casting
1.4848	CSN	Czech Republic	Casting
1.4848	DIN	Germany	Casting
1.4848	MSZ	Hungary	Casting
1.4848	AFNOR NF	France	Casting
1.4848	UNI	Italy	Casting
1.4848	SFS	Finland	Casting

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