



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.		
Silicon	Si %	3.000 max.	As Cast or Annealing or Normalizing or Hardening and Tempering	
Manganese	Mn %	2.000 max.		olizing or Hardoning and
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.
-	-	-	Impac <mark>t in Joule</mark>	-

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	

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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