



## Material - DIN 1.4848

### Standard Specification for Steel Castings for General Engineering Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - DIN 1.4848 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 %	0.300 - 0.500	As Cast or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	1.000 - 2.500		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	24.000 - 27.000		
Nickel	Ni %	19.000 - 22.000		
Niobium	Nb %	0.600 max.		
Tungsten	W %	0.600 max.		
Cobalt	Co %	1.000 max.		
Vanadium	V %	0.120 max.	Mechanical Properties	
Copper	Cu %	0.250 max.	Tensile Strength in Mpa	450 min.
Iron	Fe %	Balance	Yield Strength in Mpa	220 min.
-	-	-	Elongation in %	8 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
310C45	BS	British	Casting
Z 40CN25.20-M	AFNOR NF	France	Casting
1.4848	CSN	Czech Republic	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](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.