

Material: EN 1.4405

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: EN 1.4405 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.060 max.	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.800 max.		
Manganese	Mn %	1.000 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.025 max.		
Chromium	Cr %	15.000 - 17.000		
Molybdenum	Mo %	0.700 - 1.500		
Nickel	Ni %	4.500 - 6.000		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	760 - 960
-	-	-	Yield Strength in Mpa	540 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4405	EN	European Union	Casting
1.4405	DIN	Germany	Casting
GX4CrNiMo16-5-1	UNI	Italy	Casting
GX4CrNiMo16-5-1	DIN	Germany	Casting
GX4CrNiMo16-5-1	DIN	Germany	Casting
GX4CrNiMo16-5-1	EN	European Union	Casting
GX4CrNiMo16-5-1	AFNOR NF	France	Casting

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