

Material: EN 1.4028

Standard Specification for Open Die Steel forgings for General Engineering Purposes; Martensitic Stainless Steel

Group: Ferrous Stainless Steel Alloys

Sub Group: EN 1.4028 Open Die Steel forgings for General Engineering Purposes; Martensitic Stainless Steel

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

Grade Belongs to the Industry: Forging

Chemical Composition		
Carbon	C %	0.260 - 0.350
Silicon	Si %	1.000 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	12.000 - 14.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Annealing or Hardening + Tempering	

Mechanical Properties	
Tensile Strength in Mpa	500 - 2100
Yield Strength in Mpa	600 min.
Elongation in %	7 min.
Reduction of Area in %	-
Hardness in HRC	45 - 97
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
420	AISI	USA	Bar, Wire, Shapes and Forging
SUS 420J2	JIS	Japan	Forging
30CH13	GOST	Russia	Bar, Wire, Shapes and Forging
2304	SS	Sweden	Bar, Wire, Shapes and Forging
X 30Cr13	UNI	Italy	Bar, Wire, Shapes and Forging
420 S 45	BS	British	Bar, Wire, Shapes and Forging
A743 CA20	ASTM	USA	Casting

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