



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			Heat Treatment			
Carbon	C %	0.260 - 0.350	Annealing or Hardening + Tempering			
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				
-	-	-	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

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