



Grade	Code	AISI	Martensitic Stainless Steel
1.4028	X30Cr13	420B	

### Steel Properties

1.4028 is a martensitic chromium grade group of stainless steels designed for hardening and tempering. Steel is on the list of related counterparts that are groups of materials without nickel, containing an average of 13% of chromium, which is mainly distinguished by the carbon content in the chemical composition and thus the higher endurance properties.

### Chemical Composition (1.4028)

C %	P %	Si %	Mn %	S %	Cr %	Mo %	Ni %	Al %	Cu %
0,26 – 0,35	0,04 max.	1,00 max.	1,50 max.	0,03 max.	12,00 – 14,00	-	-	-	-

### Mechanical Properties (*Quenched and Tempered*)

Product Form	Rp0.2, Mpa	Rm, Mpa	Elongation [%]	Hardness [HRC]
Bar & Rod	> 600	800 - 1000	> 10	-

### Suitable For

1.4028 of steel is mainly used for the manufacture of shafts, glands, drops, valves, bolts, springs, piston rods, machine parts, molds for pressurized castings, knives and tools used in the food and household industries in the form of rods, wires or cold rolled metal plates where the needed hardness is 45-51 HRC.

### Remarks

### Specification

1.4028, AISI 420B, X30Cr13