



Grade	Code	AISI	Martensitic Stainless Steel
1.4021	X20Cr13	420	

Steel Properties

AISI 420 (1.4021) is a martensitic stainless steel that provides good corrosion resistance similar to 410 plus increased strength and hardness. 1.4021 is magnetic in both the annealed and hardened conditions. Maximum corrosion resistance is attained only in the fully hardened condition.

Chemical Composition (1.4021)

C %	P %	Si %	Mn %	S %	Cr %	Mo %	Ni %	Al %	Cu %
0,30 – 0,40	0,04 max.	1,00 max.	1,00 max.	0,03 min.	12,00 – 14,00	0,50 max.	0,50 max.	0.15 max.	0.50 max.

Mechanical Properties (1.4021 Annealed softened delivery condition +A)

Product Form	Rp0.2, Mpa	Rm, Mpa	Elongation [%]	Hardness [HB]
Bar & Rod	500 - 600	700 - 950	12 - 13	-

Suitable For

AISI 420 (1.4021) is used on cutlery, surgical and dental instruments, scissors, tapes, straight edges, fasteners, firearms, valve parts, pump shafts, automatic screw machined parts, motor shafts, washing machine components, bolts and nuts, studs, gears and shear blades.

Remarks

AISI 420 (1.4021) is capable of being heat treated to a hardness of HRC 51 minimum.

Specification

1.4021, AIS 420, X20Cr13