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Grade	Code	AISI	Martensitic Stainless Steel
1.4104	X14CrMoS17	430F	

Steel Properties

By analyzing the chemical composition of 1.4104 grade, increased carbon content can be observed, which enables thermal improvement and improvement of strength parameters, increased Sulphur content improving the machinability of 1.4104. A higher chromium content also leads to moderate corrosion resistance.

Chemical Composition (1.4104)

C %	P %	Si %	Mn %	S %	Cr %	Mo %	Ni %	Al %	Cu %
0,10 – 0,17	0,04 max.	1,00 max.	1,50 max.	0,15 – 0,35	15,50 – 17,50	0,20 – 0,60	-	-	-

Mechanical Properties *(QT 650)*

Product From	Rp0.2, Mpa	Rm, Mpa	Elongation [%]	Hardness [HRC]
Bar & Rod	≥ 500	650 - 980	> 7	-

Suitable For

Application of 1.4104 are screws, nuts and shafts and generally components with a high machining content.

AISI 430F are widely used in the petrochemical, automotive, food, garden and machinery industries for nitric acid plants, toolholders, fasteners, ball valves, basic fittings, furniture parts, vehicles, simple appliances and decorative elements.

Remarks

AISI 430F bar steel in rolled, forged or bright version in quenched and tempered condition (+QT650) according to DIN EN 10088.

Specification

1.4104, AISI 430F, X14CrMoS17