

1.4104 430F

X14CrMoS17	%C	%Si	%Mn	%P	%S	%Cr	%Cu	%Mo	%Nb	%Ni
	0.10	-	-	-	0.15	15.5	-	0.20	-	-
	0.17	1.00	≤1.50	0.040	0.35	17.5	-	0.60	-	-

STEEL PROPERTIES

1.4104 430F belongs to stainless steel martensitic family. It is normally supplied in the annealed. 1.4104 has high machinability compared to 1.4016 steel. The addition of sulphur, however, reduces the corrosion resistance.

EQUIVALENT GRADES

EN 10088-3	1.4104	X14CrMoS17
AFNOR	Z13CF17	
JIS	430F	
AISI	430F	

APPLICATIONS

1.4104 430F is typically used in the automotive industry, stems for vales, shafts for pumps, pneumatic shaft and shafts for e-mobility.

HEAT TREATMENT

1.4104 430F is supplied in annealed +A and quenched tempered +QT conditions.

Mechanical Values for 1.4104 430F at room temperature in EN 10088-3: 2014 in conditions 1C, 1E, 1D, 1X, 1G, 2D

Diameter (mm)	Heat Treatment Condition	Hardness HB max.	0.2% Proof strength min.	Tensile Strength R _m Mpa	Elongation after fracture A % Min.		Impact Energy (ISO-V) KV J Min.	
					(long)	(tr.)	(long)	(tr.)
-	+A	220	-	Max 730	-	-	-	-
≤ 60	+QT 650	-	500	650 to 850	12	-	-	-
60<t ≤ 160	+QT 650	-	500	650 to 850	10	-	-	-

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Mechanical Values for 1.4104 430F Bright Bars at room temperature in EN 10088-3: 2014 in conditions 2H, 2B, 2G, 2P

Diameter (mm)	Annealed		Heat Treatment Condition	0.2% Proof strength min.	Tensile Strength R _m Mpa	A5 % Min Elongation		Impact Energy (ISO-V) KV J Min.	
	R _m Mpa Max	HB Max				(long)	(tr.)	(long)	(tr.)
≤10	880	280	+QT 650	580	700 to 980	7	-	-	-
10 <t ≤ 16	880	280	+QT 650	530	700 to 980	7	-	-	-
16 <t ≤ 40	800	250	+QT 650	500	650 to 930	9	-	-	-
40 <t ≤ 63	760	230	+QT 650	500	650 to 880	10	-	-	-
63 <t ≤ 160	730	220	+QT 650	500	650 to 850	10	-	-	-

PRODUCTS OFFERED

- PEELED BARS
- BRIGHT BARS
- HEXAGONS
- SQUARES
- FLAT BARS
- WIRES