

MATERIAL NUMBER 1.4104 · CLASS 1.4

F.3117

Material no. 1.4104

also listed as X12CrMoS17

Chemical composition, mechanical and physical property values, and 32 standard designations from 12 regions.

DENSITY**7.7** g/cm³**OTHER DESIGNATIONS****32** in 12 regions**PROPERTY VALUES****8** on file

Chemical composition

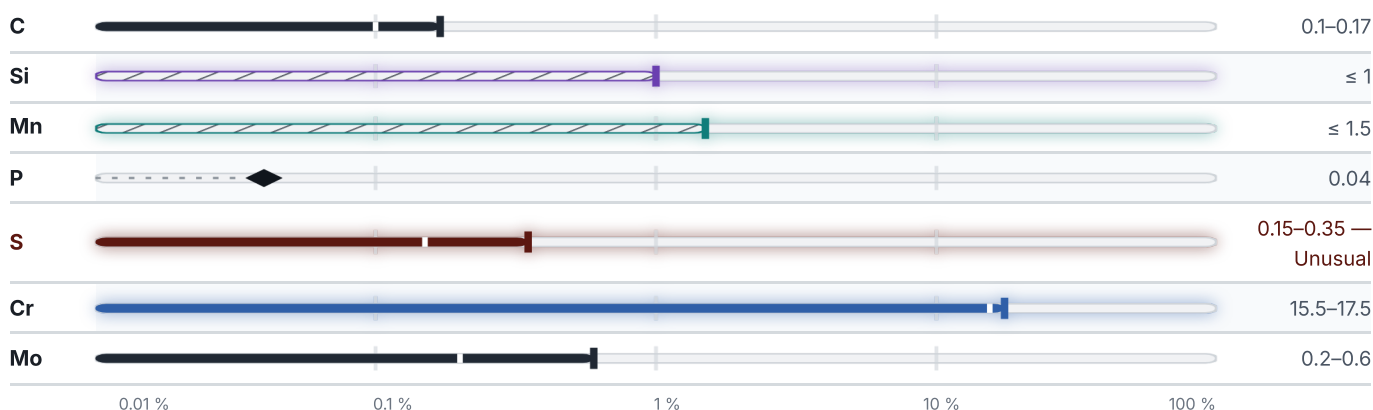
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 80.2 % ● Cr — 16.5 % ● Mn — 1.5 % ● Si — 1 % ● Traces & impurities · 0.8 %

Logarithmic scale, 0.01 % to 100 % — every value here compares directly, decade by decade.



The scale is logarithmic, not the element's raw share of the alloy — the only honest way to fit 0.01 % and 100 % in one picture, and it means every value here can be compared with every other.

Predicted transformation temperatures

Not enough recorded composition to predict a transformation temperature for this grade — missing: Ni.

Mechanical properties

1 values across 1 conditions

SOFT ANNEALED	HB
Soft annealed	220

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.7	g/cm ³

Designations across standards

32 designations · 2 documented as identical

United States	15	Spain	3
S43020	uns	F.3117	une
430F	aisi-sae	F.3117-X10CrS17	une
51430F	aisi-sae	F.3413	une
S43020	aisi-sae		
A314	astm	United Kingdom	1
A473	astm	441 S 29	bs
A581	astm		
A582	astm	Japan	1
A895	astm	SUS 430F	jis
F2281	astm		
F593	astm	China	1
F594	astm	Y1Cr17	gb
F738	astm		
F836	astm	Italy	1
F899	astm	X10CrS17	uni
Europe	3	Sweden	1
1.4104	din-en	2383	ss
X12CrMoS17 This grade's own name	din-en		
X14CrMoS17 This grade's own name	din-en	Czechia	1
		17140	csn
France	3		
Z10CF17	afnor	Slovakia	1
Z13CF17	afnor	17 140	stn
Z8CF17	afnor		
		Serbia	1
		Č.4790	srps

Note on use. The data is compiled to the best of our knowledge from publicly available standards and manufacturer documentation. It replaces neither material testing nor an inspection document to EN 10204. Please request a mill certificate to EN 10204 2.1, 3.1 or 3.2 together with your enquiry. The standard in its current valid edition always prevails.

Enquiry about F.3117

Quotation, availability, mill certificate or a technical question — directly on the material page.

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ISSUED

Aug 20, 2026