

MATERIAL NUMBER 1.4841 · CLASS 1.4

5652

Material no. 1.4841

also listed as X15CrNiSi25-20

Chemical composition, mechanical and physical property values, and 60 standard designations from 16 regions.

DENSITY

7.9 g/cm³

OTHER DESIGNATIONS

60 in 16 regions

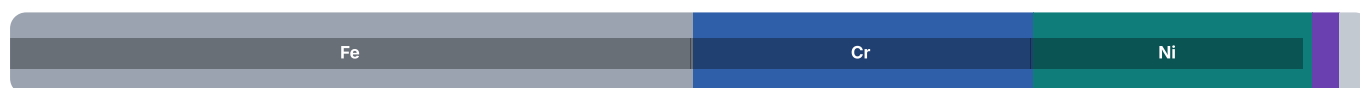
PROPERTY VALUES

10 on file

Chemical composition

Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 50.1 % ● Cr — 25 % ● Ni — 20.5 % ● Si — 2 % ● Traces & impurities · 2.4 %

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: Mo.

Mechanical properties

7 values across 3 conditions

SOLUTION ANNEALED				HB
Solution annealed				223
QUENCHING 1100 - 1150°C, AIR	RM N/mm²	RE N/mm²	A5 %	Z %
Ø 60	590	295	35	50
CONDITION · DIMENSION		RM N/mm²	A5 %	
Sheet thin, GOST 5582-75		490	35	

Physical properties

2 values

CONDITION · DIMENSION	RHO g/cm³	ALPHA 10 ⁻⁶ /K	LAMBDA W/(m·K)
20	7.72	–	–
100	7.68	16.1	15
500	–	–	22
600	–	17.8	24
700	–	17.8	25
800	7.44	18.1	27
900	7.39	18.5	29
1000	–	18.8	–
PROPERTY	VALUE		UNIT
Density	7.9		g/cm³

Technological properties

PROPERTY	VALUE	UNIT
Temper brittleness	predisposed	

Designations across standards

60 designations · 6 documented as identical

United States		27	Spain		3
S31000	This grade's own name	uns	F.3310		une
S31400	This grade's own name	uns	F.3310-X15 CrNiSi 25-20		une
S31500		uns	X15CrNiSi25-20		une
30310		aisi-sae	Czechia		
30314		aisi-sae	17255		
310	This grade's own name	aisi-sae	17265		
314	This grade's own name	aisi-sae	17265PH		
S31000		aisi-sae	Europe		
S31400		aisi-sae	X15CrNiSi25-20 This grade's own name		
S31500		aisi-sae	X15CrNiSi25-21 This grade's own name		
310 314		astm	United Kingdom		
A1012		astm	310S24		
A1049		astm	314 S 25		
A167		astm	United States / Aerospace		
A182		astm	5652		
A213		astm	7490		
A240		astm	Italy		
A249		astm	X16CrNiSi25-20		
A276		astm	X25CN25-20		
A312		astm	China		
A314		astm	2Cr25Ni20		
A336		astm	Sweden		
A473		astm	2376		
A580		astm	Slovakia		
A632		astm	17 265		
A965		astm	Serbia		
F2281		astm	Č.4578		
Russia / CIS		6	former Yugoslavia		
20Ch25N20S2		gost	Č.4578		
20KH25N20S2		gost	Poland		
20X25H20C2		gost	H25N20S2		
сг.20X25H20C2		gost			
X25H20C2		gost			
ЭН283		gost			
Japan		4			
SUH310		jis			
SUS 310TB		jis			
SUS Y 310		jis			
SUS18		jis			
France		3			
Z12CN25.20		afnor			
Z12CNS25.20		afnor			
Z15CNS25-20		afnor			

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 5652
Quotation, availability, mill certificate or a technical question — directly on the material page.

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ISSUED
Aug 23, 2026