

MATERIAL NUMBER 1.4841 · CLASS 1.4

Č.4578

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

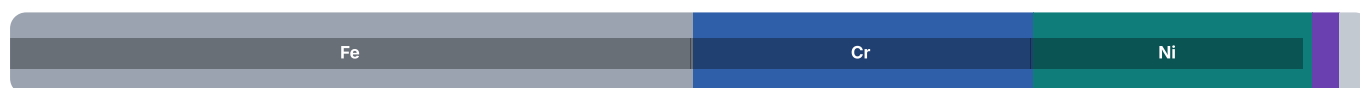
PROPERTY VALUES

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	Czechia3		
30314		aisi-sae	17255		csn
310	This grade's own name	aisi-sae	17265		csn
314	This grade's own name	aisi-sae	17265PH		csn
S31000		aisi-sae	Europe2		
S31400		aisi-sae	X15CrNiSi25-20	This grade's own name	din-en
S31500		aisi-sae	X15CrNiSi25-21	This grade's own name	din-en
310 314		astm	United Kingdom2		
A1012		astm	310S24		bs
A1049		astm	314 S 25		bs
A167		astm	United States / Aerospace2		
A182		astm	5652		ams
A213		astm	7490		ams
A240		astm	Italy2		
A249		astm	X16CrNiSi25-20		uni
A276		astm	X25CN25-20		uni
A312		astm	China1		
A314		astm	2Cr25Ni20		gb
A336		astm	Sweden1		
A473		astm	2376		ss
A580		astm	Slovakia1		
A632		astm	17 265		stn
A965		astm	Serbia1		
F2281		astm	Č.4578		srps
Russia / CIS		6	former Yugoslavia1		
20Ch25N20S2		gost	Č.4578		jus
20KH25N20S2		gost	Poland1		
20X25H20C2		gost	H25N20S2		pn
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 Č.4578
Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

DATASHEET ONLINE
View the material page

GRADE SEARCH
Search all grades

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ISSUED
Aug 23, 2026