

MATERIAL NUMBER 1.5732 · CLASS 1.5

10NC11

Material no. 1.5732

also listed as 14NiCr10

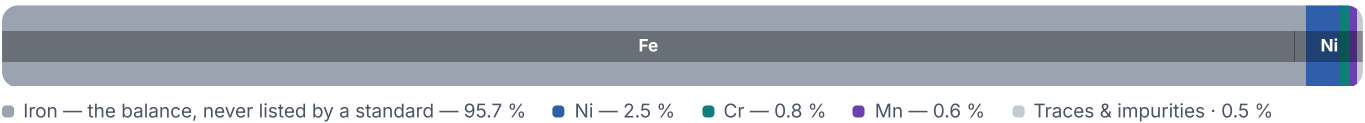
Chemical composition, mechanical and physical property values, and 21 standard designations from 14 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 21 in 14 regions	PROPERTY VALUES 15 on file
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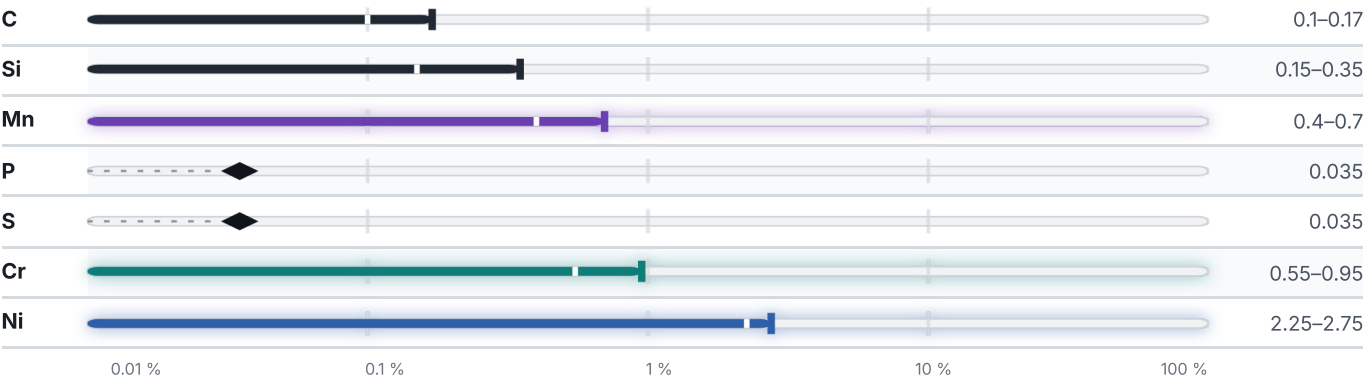
Chemical composition

Mass fraction in %

What this alloy is



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

8 values across 2 conditions

CONDITION · DIMENSION		RM N/mm ²	A5 %	HB		
Pipe, GOST 21729-76		490	16	–		
(annealing) , GOST 4543-71		–	–	217		
QUENCHING AND DRAWING		RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
Ø 15		930	685	11	55	880

Physical properties

8 values

CONDITION · DIMENSION	RHO g/cm ³	E GPa	ALPHA 10 ⁻⁶ /K	LAMBDA W/(m·K)	CP J/(kg·K)
20	7.85	200	–	–	–
100	7.83	–	11.8	31	–
200	7.8	–	13	–	–
300	7.76	–	14	–	–
400	7.72	–	14.7	26	528
500	7.68	–	15.3	–	540
600	7.64	–	15.6	–	565

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³
Transformation point Ac1	715	°C
Transformation point Ac3	773	°C
Transformation point Ar3	726	°C
Transformation point Ar1	659	°C

Technological properties

PROPERTY	VALUE	UNIT
Weldability	limited weldability.	
Flake sensitivity	predisposed	
Temper brittleness	predisposed	

Designations across standards

21 designations · 2 documented as identical

Japan	4	United Kingdom	1
SNC415	jis	655M13	bs
SNC415(H)	jis		
SNC815	jis	Italy	1
SNC815H	jis	16NiCr11	uni
Europe	2	Czechia	1
1.5732	din-en	16420	csn
14NiCr10 This grade's own name	din-en		
France	2	Poland	1
10NC11	afnor	12HN3A	pn
14NC11	afnor		
Spain	2	Serbia	1
15NiCr11	une	Č.5425	srps
F.1540- 15 NiCr 11	une		
Russia / CIS	2	Hungary	1
12KHN3A	gost	BNC2	msz
12XH3A	gost		
United States	1	Romania	1
3415 This grade's own name	aisi-sae	13CrNi30q	stas
		Bulgaria	1
		12ChN3A	bds

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 10NC11

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

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ISSUED

Aug 20, 2026