

MATERIAL NUMBER 1.6587 · CLASS 1.6

14NiCrMo13

Material no. 1.6587

also listed as 17CrNiMo6

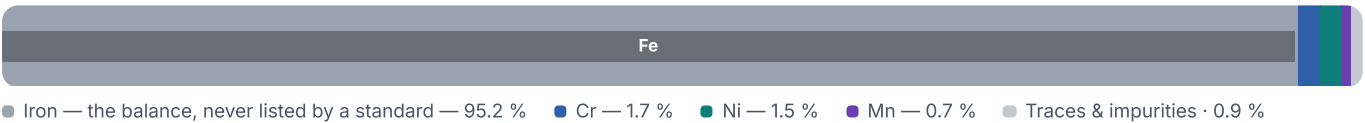
Chemical composition, mechanical and physical property values, and 41 standard designations from 15 regions.

DENSITY 7.77 g/cm³	OTHER DESIGNATIONS 41 in 15 regions	PROPERTY VALUES 14 on file
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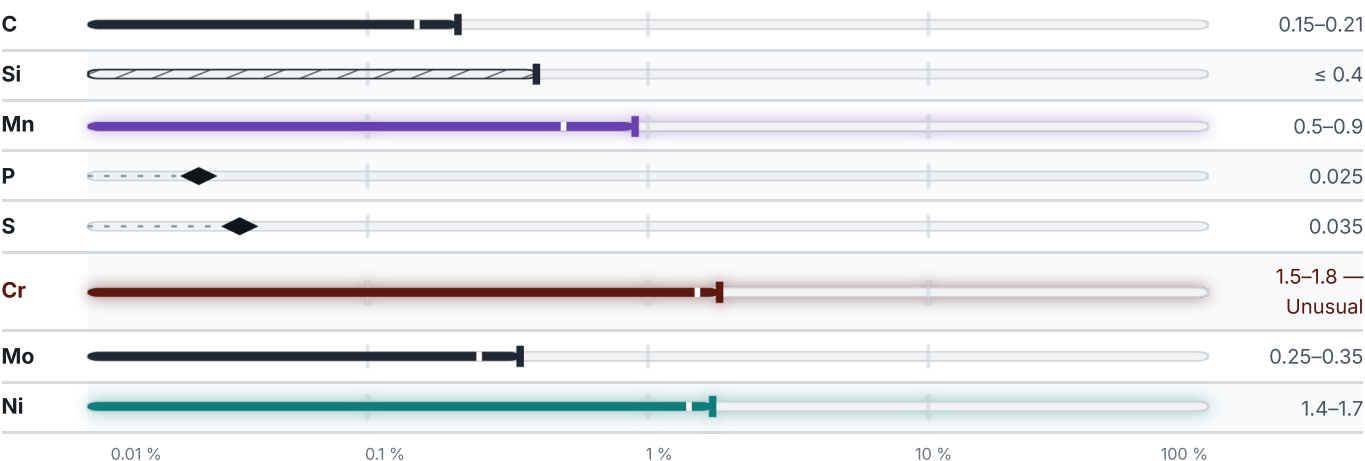
Chemical composition

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

computed from composition · °C

PREDICTED AE3 789 °C	PREDICTED AE1 737 °C	PREDICTED ACM 480 °C	PREDICTED BS 492 °C
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Mechanical properties

10 values across 6 conditions

QUENCHING AND DRAWING	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
Ø 15	880	685	11	50	780
TREATED TO IMPROVE SHEARABILITY					HB
Treated to improve shearability					255
SOFT ANNEALED					HB
Soft annealed					229
TREATED TO HARDNESS RANGE					HB
Treated to hardness range					179–229
TREATED TO FERRITE-PEARLITE STRUCTURE AND HARDNESS RANGE					HB
Treated to ferrite-pearlite structure and hardness range					159–207
CONDITION · DIMENSION					RM N/mm ²
200					1200

Physical properties

6 values

PROPERTY	VALUE	UNIT
Density	7.77	g/cm ³
Transformation point Ac1	720	°C
Transformation point Ac3	825	°C

Technological properties

PROPERTY	VALUE	UNIT
Weldability	limited weldability.	
Flake sensitivity	predisposed	
Temper brittleness	not predisposed	

Designations across standards

41 designations · 6 documented as identical

United States		6	Spain		3
G48200	uns		14NiCrMo13	une	
4320	aisi-sae		F.1560	une	
4320H	aisi-sae		F.1560-14NiCrMo13	une	
4820	aisi-sae				
G43200	aisi-sae		France		2
H43200	aisi-sae		18NCD6	afnor	
			18NiCrMo6	afnor	
United Kingdom		6			
22H17	This grade's own name	bs	Czechia		2
817M17	This grade's own name	bs	16326	csn	
820A16		bs	16326PH	csn	
822A17	This grade's own name	bs			
822M17		bs	Poland		2
EN355	This grade's own name	bs	17HGM	pn	
			17HNM	pn	
Russia / CIS		6			
12ChN4A	gost		International		1
18KH2N4VA	gost		18CrNiMo7	iso	
18X2H4BA	gost				
20KHN2M	gost		China		1
20XH2M	gost		17Cr2Ni2Mo	gb	
20XHM	gost		Italy		1
Europe		4	18NiCrMo7	uni	
1.6587	din-en		Latin America		1
17CrNiMo6	This grade's own name	din-en	4820	copant	
17CrNiMo7		din-en			
18CrNiMo7-6	This grade's own name	din-en	Serbia		1
Japan		4	Č.4520	srps	
SNCM415	jis		Finland		1
SNCM420	jis		511	sfs	
SNCM420H	jis				
SNCM815	jis				

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 14NiCrMo13

Start an enquiry

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

DATASHEET ONLINE

View the material page

GRADE SEARCH

Search all grades

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ISSUED

Aug 20, 2026