

MATERIAL NUMBER 1.6566 · CLASS 1.6

SS2523

Material no. 1.6566

also listed as 17NiCrMo6-4

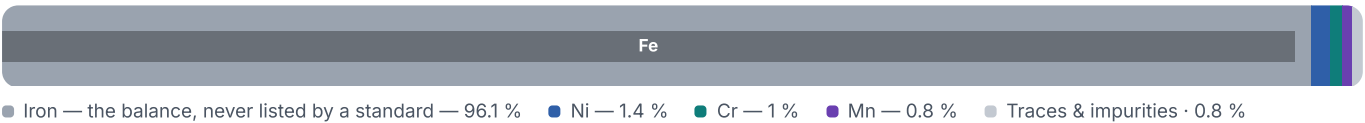
Chemical composition, mechanical and physical property values, and 11 standard designations from 8 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 11 in 8 regions	PROPERTY VALUES 9 on file
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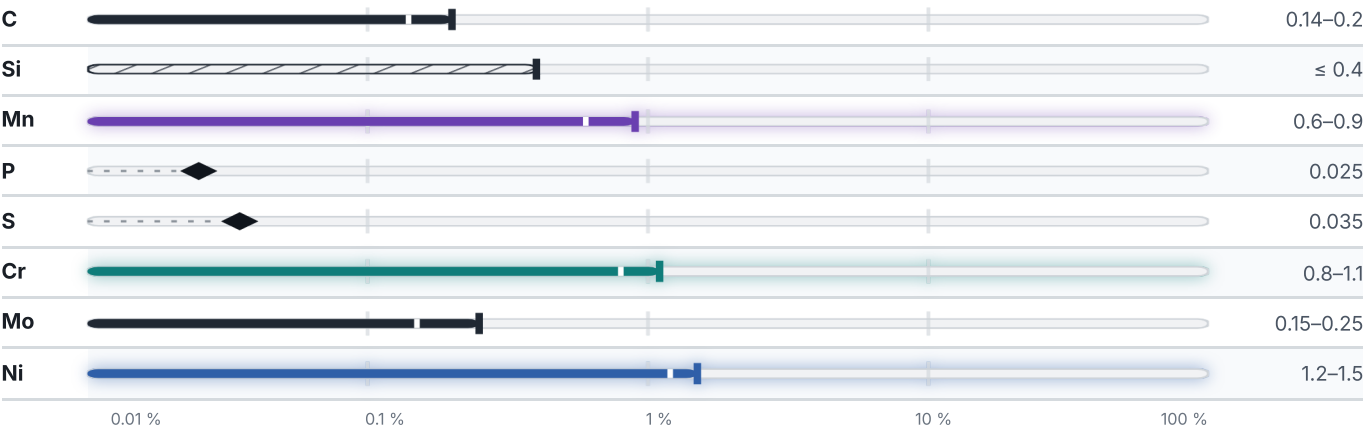
Chemical composition

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 795 °C	PREDICTED AE1 723 °C	PREDICTED ACM 455 °C	PREDICTED BS 524 °C
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Mechanical properties

4 values across 4 conditions

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	149–201

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

11 designations · 1 documented as identical

United Kingdom	2	Europe	1
815M17	bs	17NiCrMo6-4	This grade's own name din-en
822M17	bs		
France	2	International	1
18NCD6	afnor	17NiCrMo6	iso
18NiCrMo6	afnor	Sweden	1
Italy	2	SS2523	ss
18NiCrMo5	uni	Poland	1
18NiCrMo7	uni	17HNM	pn
		Hungary	1
		~BNCMo 1	msz

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 SS2523

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

[Start an enquiry](#)

DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026