

MATERIAL NUMBER 2.4816 · CLASS 2.4

B516

Material no. 2.4816

also listed as NiCr15Fe

Chemical composition, mechanical and physical property values, and 20 standard designations from 5 regions.

DENSITY

8.45 g/cm³

OTHER DESIGNATIONS

20 in 5 regions

PROPERTY VALUES

14 on file

Chemical composition

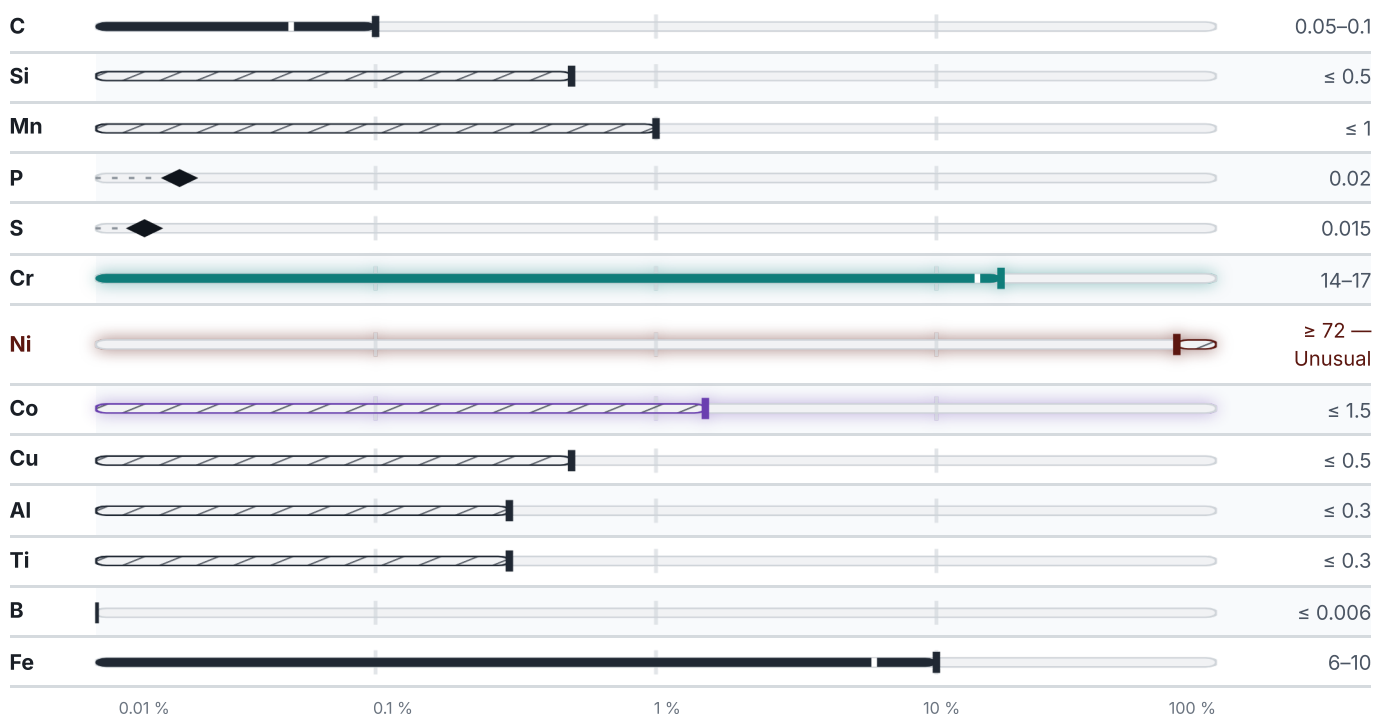
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 8.3 % ● Ni — 72 % ● Cr — 15.5 % ● Co — 1.5 % ● Traces & impurities · 2.7 %

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: Ni, Mo.

Mechanical properties

1 values across 1 conditions

SOLUTION ANNEALED	HB
Solution annealed	200

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	8.45	g/cm³

Designations across standards

20 designations · 2 documented as identical

United States15		United States / Aerospace2	
N06040	This grade's own nameuns	5580	ams
N06600	uns	5665	ams
N06600; Alloy 600	uns	Europe1	
5540	aisi-sae	NiCr15Fe	This grade's own namedin-en
B163	astm	United Kingdom1	
B166	astm	3072-76bs	
B167	astm	France1	
B168	astm	NC 15 Feafnor	
B366	astm		
B516	astm		
B517	astm		
B564	astm		
B751	astm		
B775	astm		
B829	astm		

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 B516

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

Start an enquiry

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	2.4816	Aug 20, 2026