

MATERIAL NUMBER 2.4668 · CLASS 2.4

BS2901 grade NA51

Material no. 2.4668

also listed as NiCr19Fe19Nb5Mo3

Chemical composition, mechanical and physical property values, and 29 standard designations from 10 regions.

DENSITY

8.2 g/cm³

OTHER DESIGNATIONS

29 in 10 regions

PROPERTY VALUES

16 on file

Chemical composition

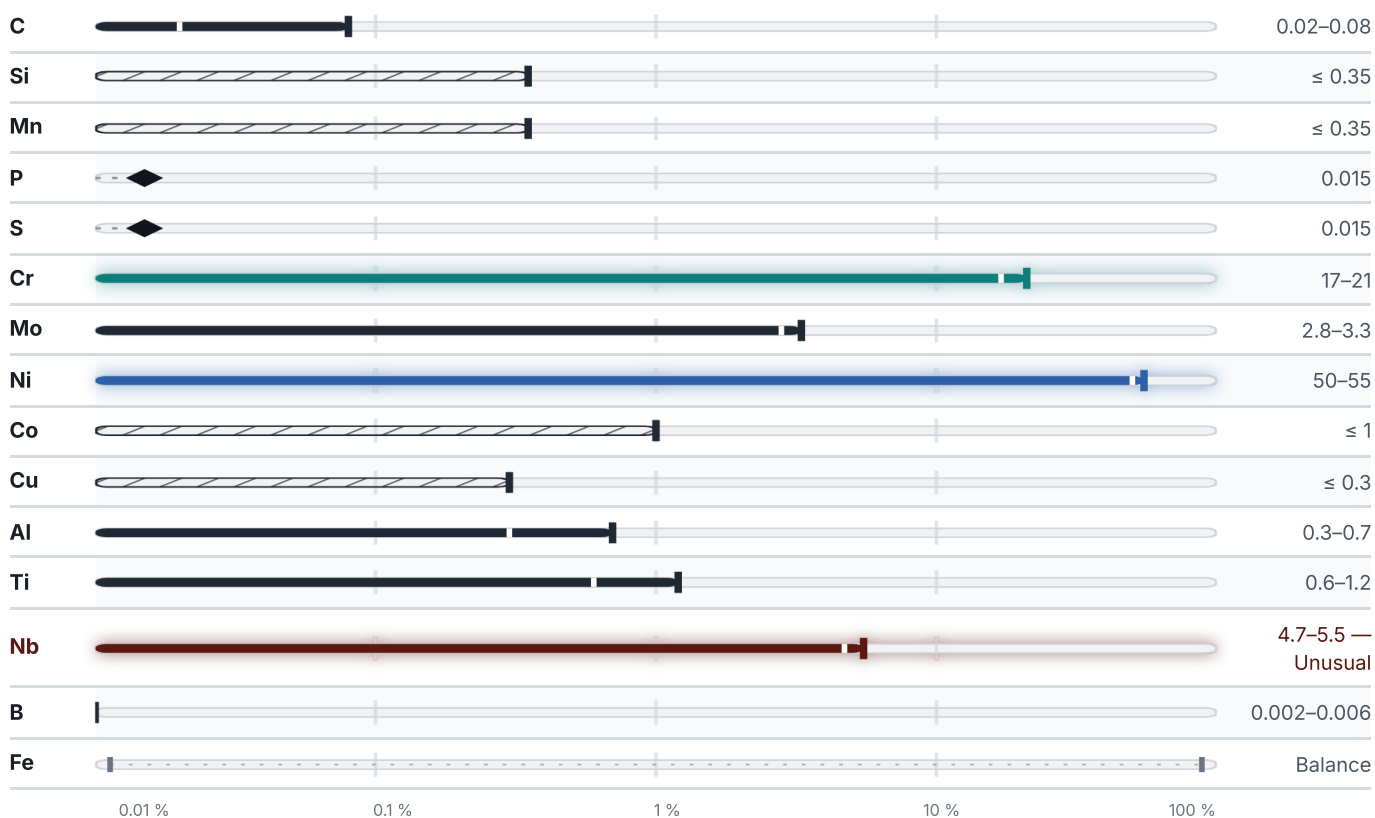
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 16.9 % ● Ni — 52.5 % ● Cr — 19 % ● Nb — 5.1 % ● Traces & impurities · 6.5 %

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

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no transformation temperature is predicted here.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	8.2	g/cm ³

Designations across standards

29 designations · 3 documented as identical

United States / Aerospace		9	Europe		2
5589	ams		NiCr19Fe19Nb5Mo3	This grade's own name	din-en
5590	ams		NiCr19NbMo	This grade's own name	din-en
5596	ams		United Kingdom		2
5597	ams		BS2901 grade NA51		bs
5662	ams		HR8		bs
5663	ams		International		2
5664	ams		NiCr19Fe19Nb5Mo3		iso
5832	ams		NW7718		iso
5962	ams		France		1
United States		6	NC 19FeNb		afnor
N07718	uns		Japan		1
B637	astm		NCF718		jis
B670	astm		Sweden		1
F3055	astm		MH-06		ss
Inconel 718 wg AMS	astm		South Korea		1
N07718	astm		NCF718		ks
Russia / CIS		4			
ChN55MBJu	gost				
ChN55MTJuB	gost				
XH55MБЮ	gost				
XH55MTЮB	gost				

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 BS2901 grade NA51

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

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ISSUED

Aug 20, 2026