

MATERIAL NUMBER 2.4632 · CLASS 2.4

HR503

Material no. 2.4632

also listed as NiCr20Co18Ti

Chemical composition, mechanical and physical property values, and 14 standard designations from 6 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
8.18 g/cm ³	14 in 6 regions	15 on file

Chemical composition

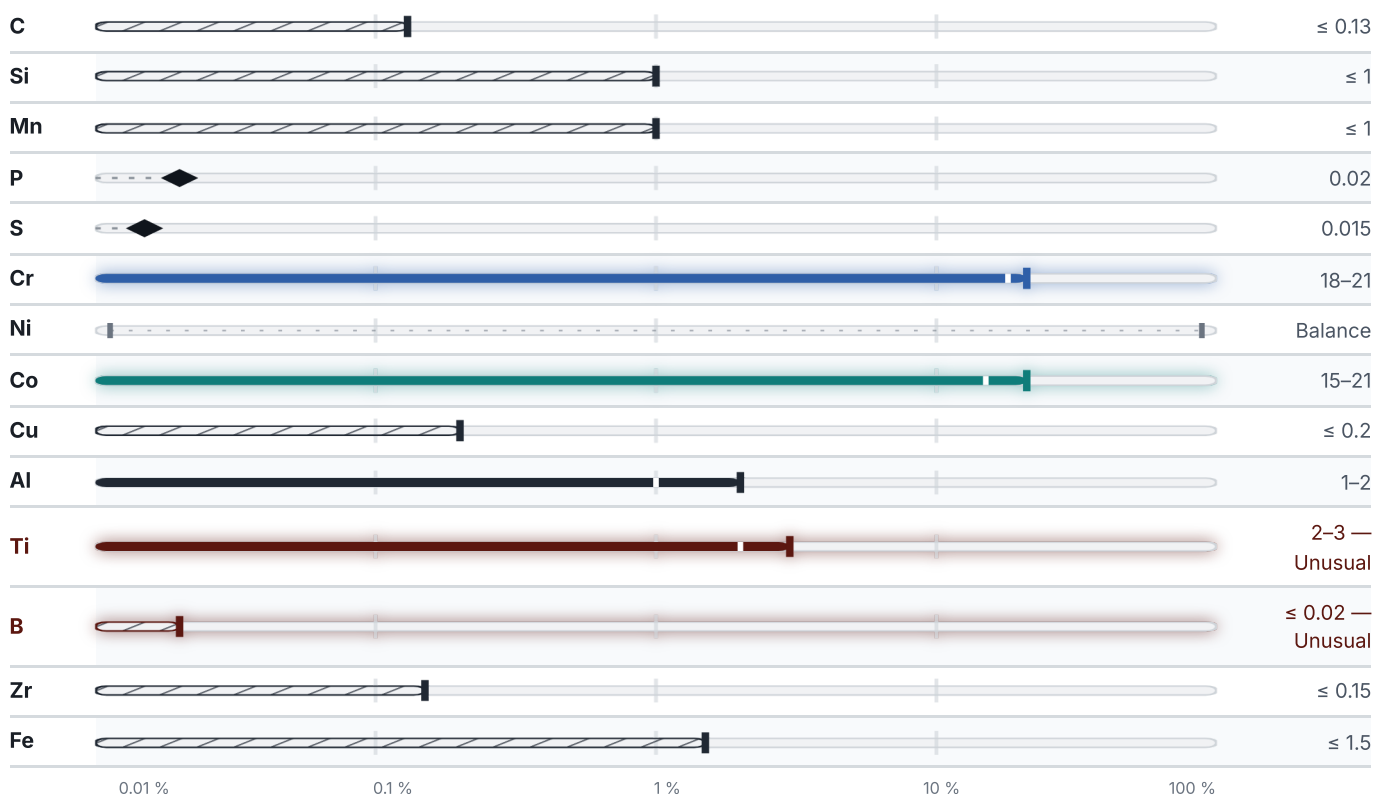
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 56 % ● Cr — 19.5 % ● Co — 18 % ● Ti — 2.5 % ● Traces & impurities · 4 %

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.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	8.18	g/cm³

Designations across standards

14 designations · 2 documented as identical

United Kingdom	7	China	2
HR2	bs	GH4090	gb
HR202	bs	GH90	gb
HR402	bs		
HR501	bs	Europe	1
HR502	bs	NiCr20Co18Ti	This grade's own name din-en
HR503	bs		
NA19	bs	United States	1
		N07090	This grade's own name uns
International	2		
NiCr20Co18Ti3	iso	United States / Aerospace	1
NW7090	iso	5829	ams

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 HR503

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	2.4632	Aug 20, 2026