

MATERIAL NUMBER 1.4848 · CLASS 1.4

F.8452

Material no. 1.4848

also listed as GX40CrNiSi25-20

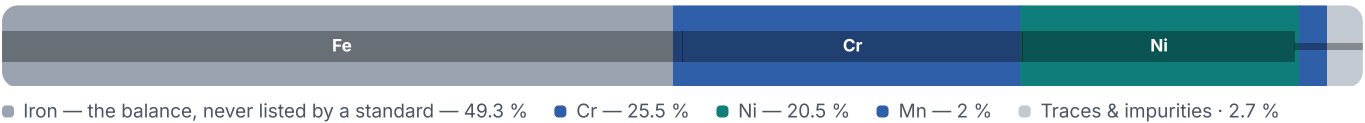
Chemical composition, mechanical and physical property values, and 20 standard designations from 10 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 20 in 10 regions	PROPERTY VALUES 9 on file
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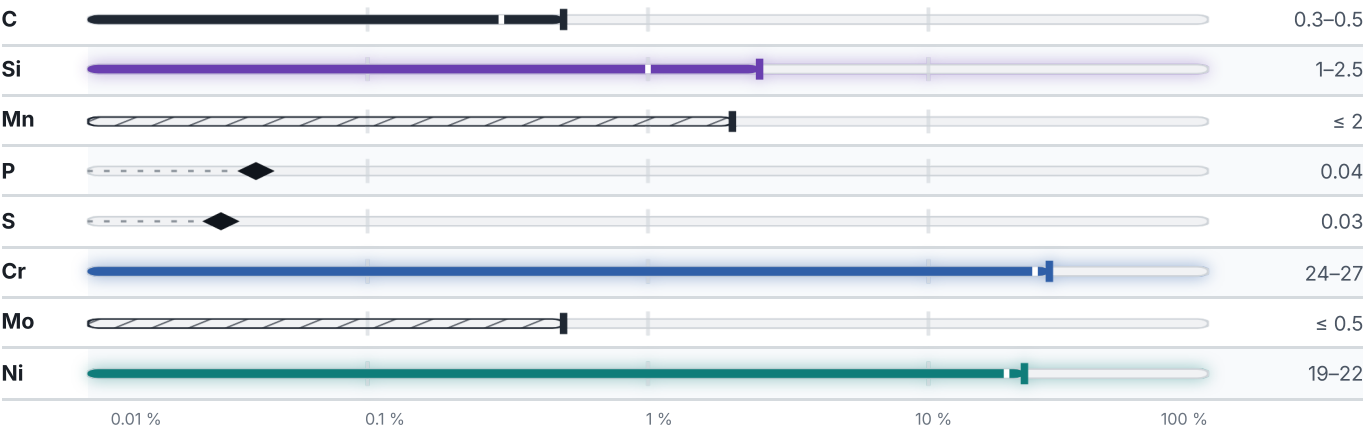
Chemical composition

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

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

Mechanical properties

4 values across 1 conditions

QUENCHING 1100°C	RM N/mm ²	RE N/mm ²	A5 %	Z %
to 100	491	245	25	28

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

20 designations · 4 documented as identical

United States		7	Russia / CIS		2
J94203	This grade's own name	uns	20KH25N19S2L		gost
J94204	This grade's own name	uns	20X25H19C2Л		gost
J94224	This grade's own name	uns			
HK		aisi-sae	Europe		1
J94203		aisi-sae	GX40CrNiSi25-20	This grade's own name	din-en
J94204		aisi-sae			
J94224		aisi-sae	France		1
Japan		3	Z40CN25-20M		afnor
SCH 21		jis	Spain		1
SCH 22X		jis	F.8452		une
SCH22		jis			
United Kingdom		2	Italy		1
310 C 45		bs	GX40CrNi26-20		uni
310C40		bs			
			Czechia		1
			422 952		csn
			Poland		1
			LH25N19S2		pn

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 F.8452

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	1.4848	Aug 20, 2026