

MATERIAL NUMBER 1.4848 · CLASS 1.4

Z40CN25-20M

Material no. 1.4848

also listed as GX40CrNiSi25-20

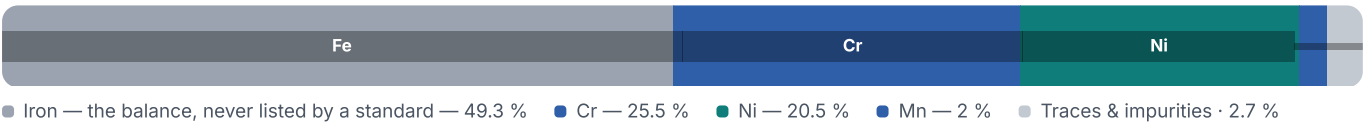
Chemical composition, mechanical and physical property values, and 20 standard designations from 10 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 20 in 10 regions	PROPERTY VALUES 9 on file
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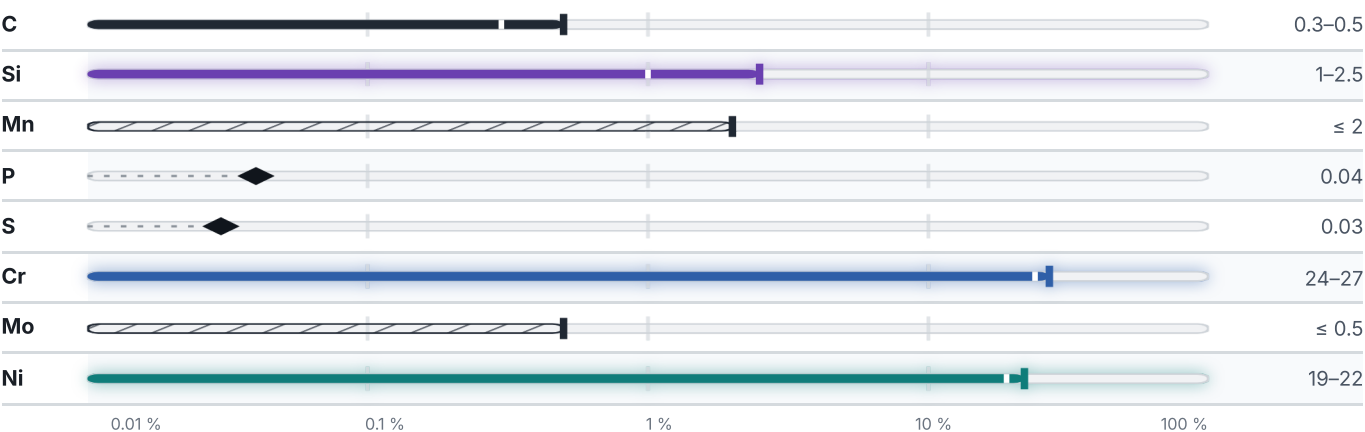
Chemical composition

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 States7		Russia / CIS2	
J94203	This grade's own nameuns	20KH25N19S2L	gost
J94204	This grade's own nameuns	20X25H19C2Л	gost
J94224	This grade's own nameuns		
HKaisi-sae		Europe1	
J94203	aisi-sae	GX40CrNiSi25-20	This grade's own namedin-en
J94204	aisi-sae		
J94224	aisi-sae		
Japan3		France1	
SCH 21	jis	Z40CN25-20M	afnor
SCH 22X	jis		
SCH22	jis		
United Kingdom2		Spain1	
310 C 45	bs	F.8452	une
310C40	bs		
		Italy1	
		GX40CrNi26-20	uni
		Czechia1	
		422 952	csn
		Poland1	
		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 Z40CN25-20M

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