

MATERIAL NUMBER 1.1149 · CLASS 1.1

C22R

Material no. 1.1149

Chemical composition, mechanical and physical property values, and 11 standard designations from 7 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 11 in 7 regions	PROPERTY VALUES 9 on file
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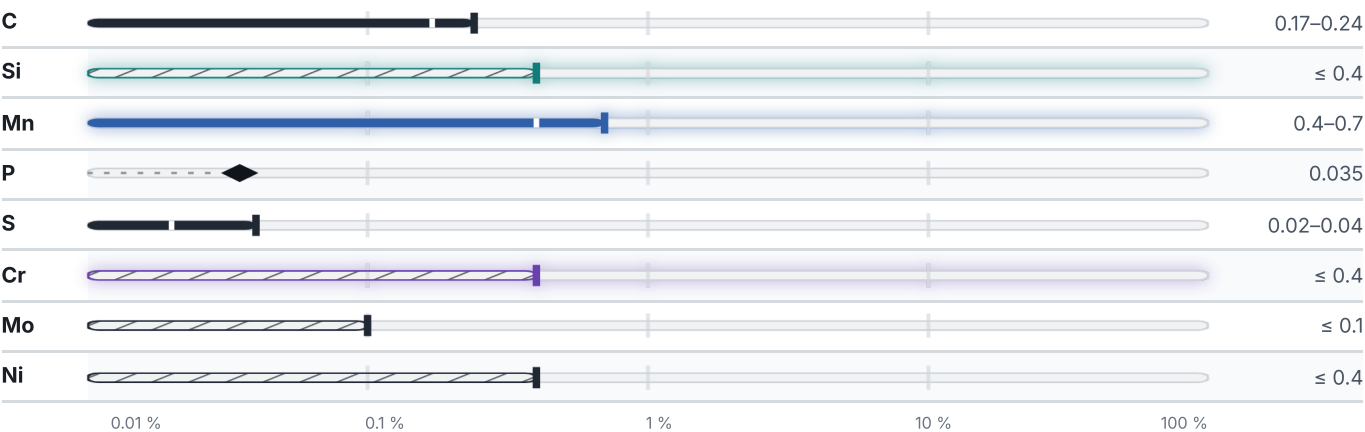
Chemical composition

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

computed from composition · °C

PREDICTED AE3 812 °C	PREDICTED AE1 725 °C	PREDICTED ACM 465 °C	PREDICTED BS 575 °C
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Mechanical properties

4 values across 1 conditions

NORMALIZED	RM N/mm ²	A %
≤ 16	430	24
16 – 100	410	25

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

11 designations · 4 documented as identical

France	3	Russia / CIS	1
XC18	afnor	st 20	gost
XC18u	afnor		
XC25	afnor	Italy	1
		C25	uni
Europe	2		
C22R This grade's own name	din-en	Poland	1
Cm 22 This grade's own name	din-en	20	pn
United States	2	Hungary	1
G10200 This grade's own name	uns	C 25	msz
1020 This grade's own name	aisi-sae		

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 C22R

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	1.1149	Aug 20, 2026