

MATERIAL NUMBER 1.1209 · CLASS 1.1

XC55H1u

Material no. 1.1209

also listed as C55R

Chemical composition, mechanical and physical property values, and 15 standard designations from 8 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 15 in 8 regions	PROPERTY VALUES 9 on file
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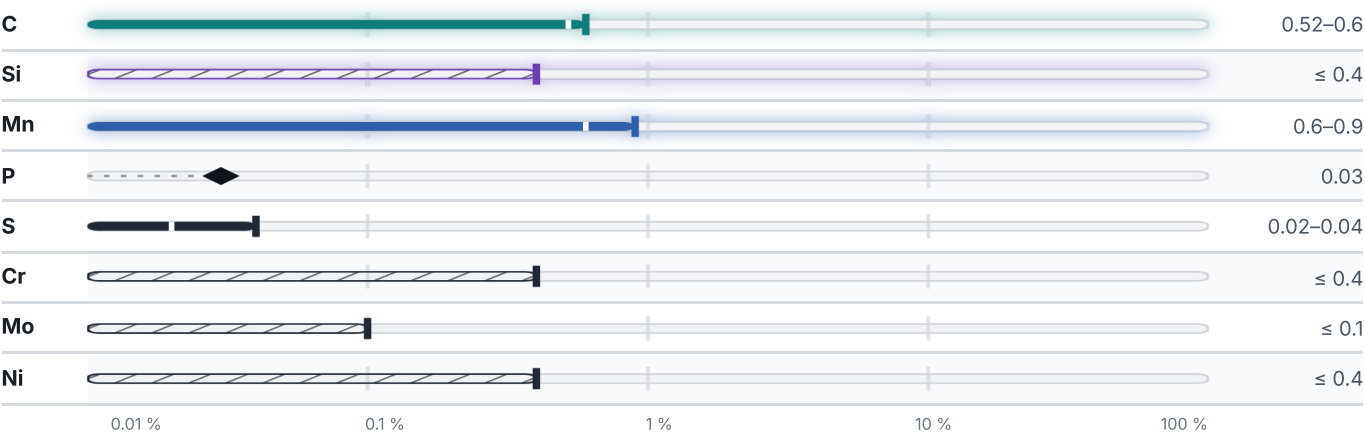
Chemical composition

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 744 °C	PREDICTED AE1 723 °C	PREDICTED ACM 687 °C	PREDICTED BS 547 °C
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Mechanical properties

8 values across 3 conditions

NORMALIZED	RM N/mm ²	A %
≤ 16	680	11
16 – 100	640	12
100 – 250	620	12
TREATED TO IMPROVE SHEARABILITY		HB
Treated to improve shearability		255
SOFT ANNEALED		HB
Soft annealed		229

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

15 designations · 4 documented as identical

United States	4	Poland	2
G10550 This grade's own name	uns	55	pn
G10600	uns	60	pn
1055 This grade's own name	aisi-sae	France	1
1060	aisi-sae	XC55H1u	afnor
Spain	3	International	1
C55K1	une	C55M2	iso
F1155	une	Italy	1
F1155(1)	une	C55	uni
Europe	2	Australia / New Zealand	1
C55R This grade's own name	din-en	1055	as-nzs
Cm 55 This grade's own name	din-en		

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 XC55H1u

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

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DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026