

MATERIAL NUMBER 1.1180 · CLASS 1.1

XC38H1u

Material no. 1.1180

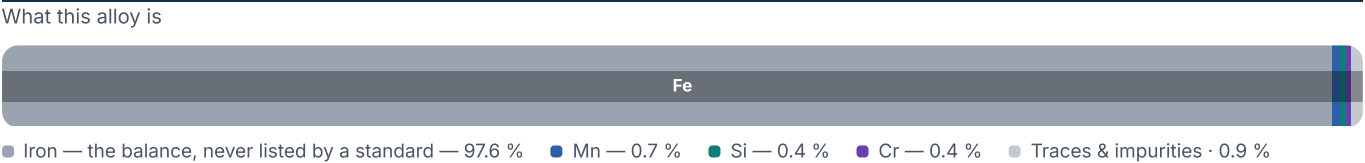
also listed as C35R

Chemical composition, mechanical and physical property values, and 17 standard designations from 11 regions.

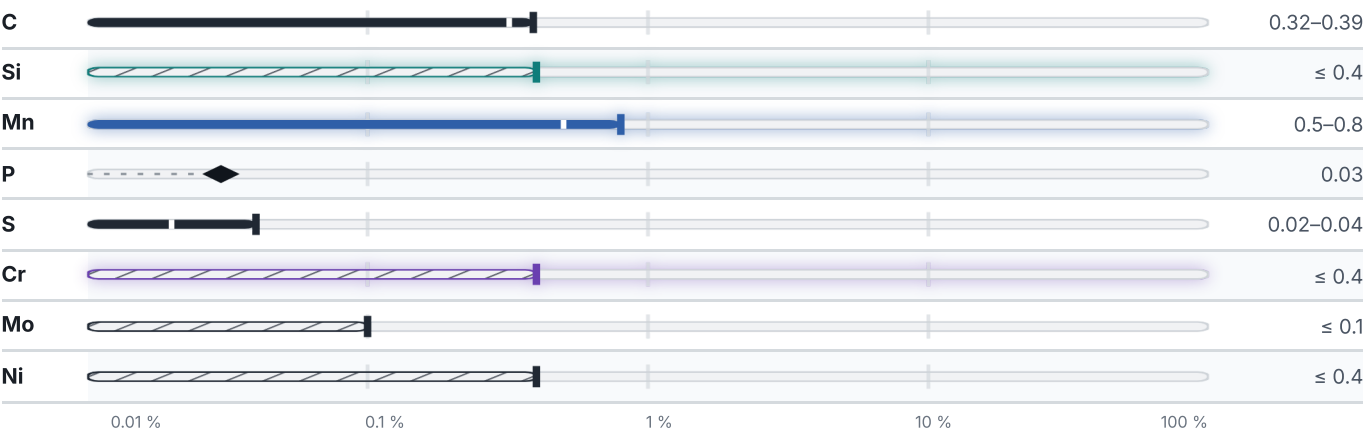
DENSITY 7.73 g/cm³	OTHER DESIGNATIONS 17 in 11 regions	PROPERTY VALUES 9 on file
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Chemical composition

Mass fraction in %



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 783 °C	PREDICTED AE1 724 °C	PREDICTED ACM 572 °C	PREDICTED BS 563 °C
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Mechanical properties

17 values across 3 conditions

COLD DRAWN / HARD	RM N/mm ²	A %
5 – 10	650–1000	6
10 – 16	600–950	7
16 – 40	580–880	8
40 – 63	550–840	9
63 – 100	520–800	9
NORMALIZED	RM N/mm ²	A %
≤ 16	550	18
16 – 100	520	19
100 – 250	500	19
AS ROLLED AND TURNED	HB	
As rolled and turned	154–207	

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.73	g/cm ³

Designations across standards

17 designations · 4 documented as identical

Europe			3	United Kingdom			1
C35		din-en		080M36			bs
C35R	This grade's own name		din-en	International			1
Cm 35	This grade's own name		din-en	C35M2			iso
Spain			3	Russia / CIS			1
C35K1			une	ct35			gost
F1135			une	Italy			1
F1135(1)			une	C35			uni
United States			2	Sweden			1
G10350	This grade's own name		uns	1572			ss
1035	This grade's own name		aisi-sae	Poland			1
France			2	35			pn
XC38			afnor				
XC38H1u			afnor				

Romania	1
OLC35X	stas

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 XC38H1u

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	1.1180	Aug 20, 2026