

MATERIAL NUMBER 1.1208 · CLASS 1.1

C16R

Material no. 1.1208

Chemical composition, mechanical and physical property values, and 3 standard designations from 2 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 3 in 2 regions	PROPERTY VALUES 6 on file
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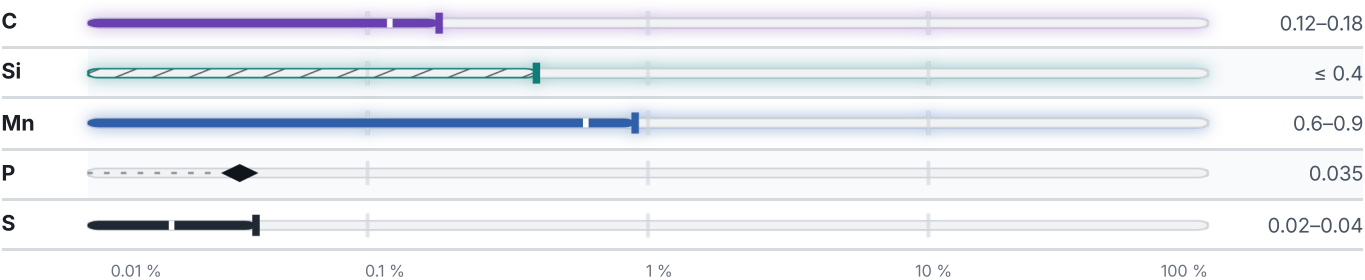
Chemical composition

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Ni, Cr, Mo.

Mechanical properties

13 values across 4 conditions

COLD DRAWN / HARD	RM N/mm²	A %
5 – 10	520–820	7

COLD DRAWN / HARD	RM N/mm ²	A %
10 – 16	500–800	8
16 – 40	450–750	9
40 – 63	400–690	11
63 – 100	360–620	12
SOFT ANNEALED		HB
Soft annealed		156
NORMALIZED		HB
Normalized		100–155
AS ROLLED AND TURNED		HB
As rolled and turned		105–184

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

3 designations · 3 documented as identical

United States2		Europe1	
G10160	This grade's own nameuns	C16R	This grade's own namedin-en
1016	This grade's own nameaisi-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 C16R

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	1.1208	Aug 20, 2026