

MATERIAL NUMBER 1.7190 · CLASS 1.7

1.7190

Chemical composition, mechanical and physical property values, and 12 standard designations from 7 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 12 in 7 regions	PROPERTY VALUES 7 on file
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Chemical composition

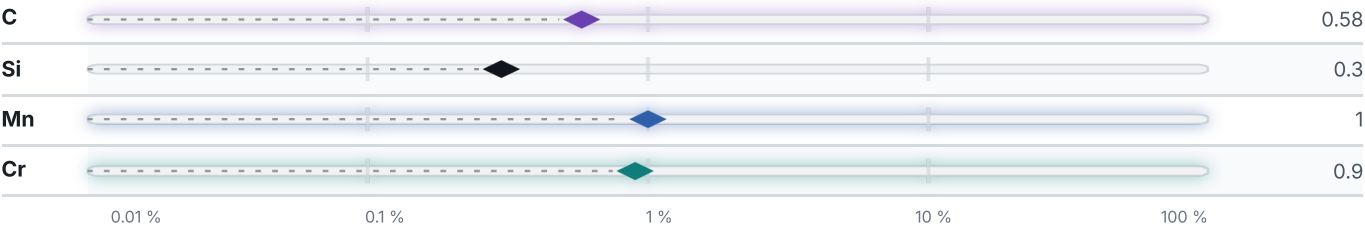
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 97.2 % ● Mn — 1 % ● Cr — 0.9 % ● C — 0.6 % ● Traces & impurities · 0.3 %

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, Mo.

Mechanical properties

6 values across 2 conditions

CONDITION · DIMENSION	HB
(without heat treatment) , Rolled stock GOST 14959-79	302
(heat treatment) , Rolled stock GOST 14959-79	269

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %
Rolled stock, GOST 14959-79	1270	1175	7	35

Physical properties

3 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³
Transformation point Ac1	750	°C
Transformation point Ac3	790	°C

Designations across standards

12 designations · 3 documented as identical

United States	5	International	1
G51601	uns	60CrB3	iso
H51601 This grade's own name	uns		
51B60	aisi-sae	Japan	1
51B60H This grade's own name	aisi-sae	SUP11A	jis
H51601	aisi-sae		
		China	1
Russia / CIS	2	60CrMnBA	gb
55KHGR	gost		
55XГP	gost	Bulgaria	1
		55ChGR	bds
Europe	1		
58CrMnB4 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 1.7190

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

Start an enquiry

DATASHEET ONLINE

View the material page

GRADE SEARCH

Search all grades

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ISSUED

Aug 20, 2026