

MATERIAL NUMBER 1.7190 · CLASS 1.7

55ChGR

Material no. 1.7190

also listed as 58CrMnB4

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

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm ³	12 in 7 regions	7 on file

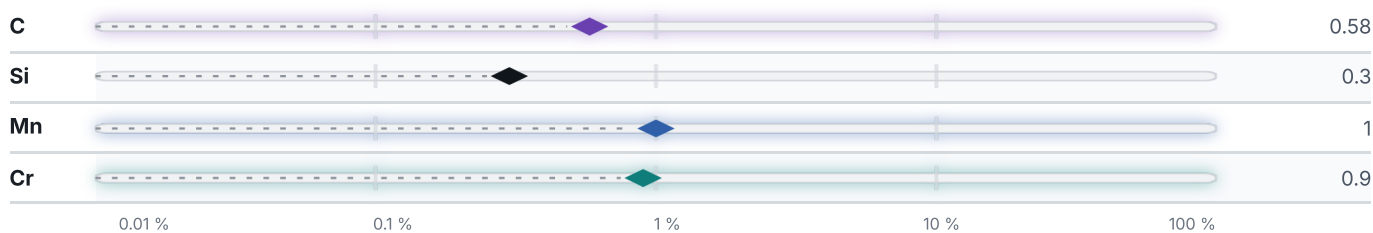
Chemical composition

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, Mo.

Mechanical properties

6 values across 2 conditions

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

CONDITION · DIMENSION				HB
(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		Bulgaria		1
55XГP	gost		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 55ChGR

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	MATERIAL NO. 1.7190	ISSUED Aug 20, 2026
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