

MATERIAL NUMBER 1.7190 · CLASS 1.7

51B60H

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

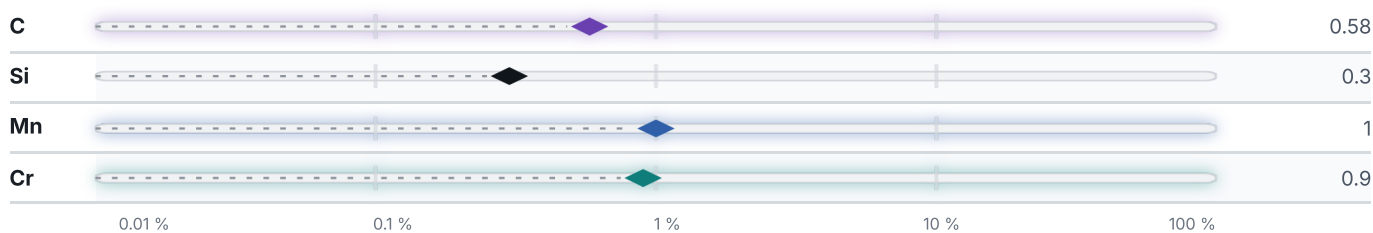
Chemical composition

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	Japan		1
51B60	aisi-sae		SUP11A		jis
51B60H	This grade's own name	aisi-sae	China		1
H51601	aisi-sae		60CrMnBA		gb
Russia / CIS		2	Bulgaria		1
55KHGR	gost		55ChGR		bds
55XГP	gost				
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 51B60H

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	1.7190	Aug 20, 2026