

MATERIAL NUMBER 1.7102 · CLASS 1.7

60S2KH

Material no. 1.7102

also listed as 54SiCr6

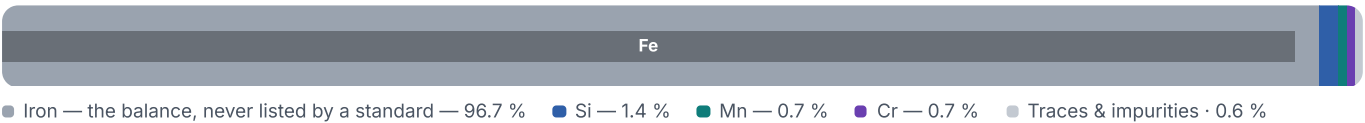
Chemical composition, mechanical and physical property values, and 32 standard designations from 14 regions.

DENSITY 7.46 g/cm ³	OTHER DESIGNATIONS 32 in 14 regions	PROPERTY VALUES 13 on file
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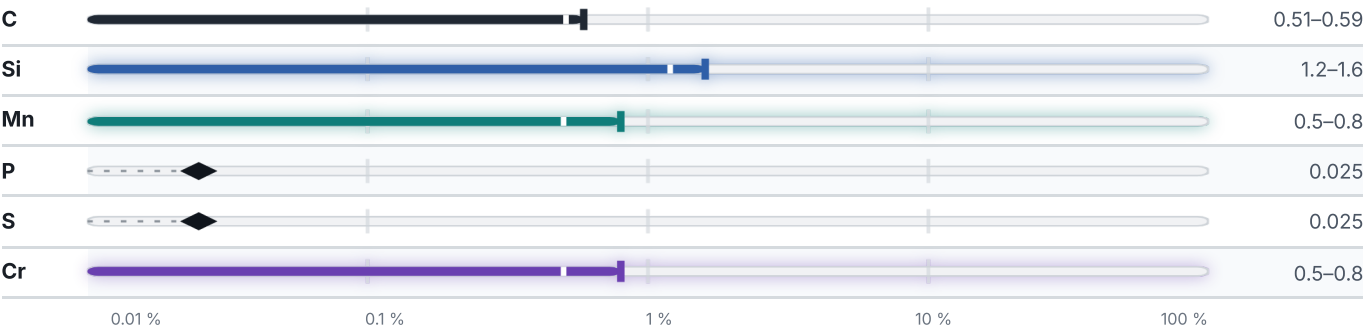
Chemical composition

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, Mo.

Mechanical properties

9 values across 5 conditions

CONDITION · DIMENSION				HB
(without heat treatment) , GOST 14959-79				321
(heat treatment) , Rolled stock GOST 14959-79				285
TREATED TO IMPROVE SHEARABILITY				HB
Treated to improve shearability				280
SOFT ANNEALED				HB
Soft annealed				248
CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %
Steel, GOST 14959-79	1470	1325	6	25
ANNEALED TO ACHIEVE SPHEROIDIZATION OF THE CARBIDES				HB
Annealed to achieve spheroidization of the carbides				230

Physical properties

7 values

CONDITION · DIMENSION			E GPa
20			196
PROPERTY	VALUE	UNIT	
Density	7.46	g/cm ³	
Transformation point Ac1	765	°C	
Transformation point Ac3	780	°C	
Transformation point Ar1	700	°C	

Technological properties

PROPERTY	VALUE	UNIT
Weldability	is not used.	
Flake sensitivity	not predisposed	
Temper brittleness	not predisposed	

Designations across standards

32 designations · 6 documented as identical

United States	6	Japan	2
G92540	uns	SUP12	jis
K15590	uns	SUP7	jis
9254	aisi-sae		
9260	aisi-sae	Italy	2
G92540	aisi-sae	48Si7	uni
J157	aisi-sae	60SiCr8	uni
Czechia	4	Poland	2
13251	csn	60S2	pn
13270	csn	60S2A	pn
14240	csn		
14260	csn	Bulgaria	2
		60S2A	bds
United Kingdom	3	60S2ChA	bds
250A61	bs		
685H57	bs	Europe	1
EN48A	bs	54SiCr6	din-en
France	3	International	1
54SiCr6	afnor	55SiCr63	iso
60SC7	afnor		
61SC7	afnor	China	1
		60Si2CrA	gb
Russia / CIS	3	Sweden	1
50S2	gost	2090	ss
60S2KH	gost		
60C2XA	gost	Romania	1
		60Si15A	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 60S2KH

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.

1.7102

ISSUED

Aug 20, 2026