

MATERIAL NUMBER 1.7707 · CLASS 1.7

15241

Material no. 1.7707

also listed as 30CrMoV9

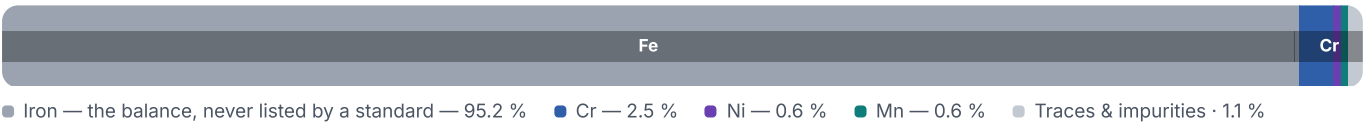
Chemical composition, mechanical and physical property values, and 19 standard designations from 7 regions.

DENSITY 7.73 g/cm³	OTHER DESIGNATIONS 19 in 7 regions	PROPERTY VALUES 12 on file
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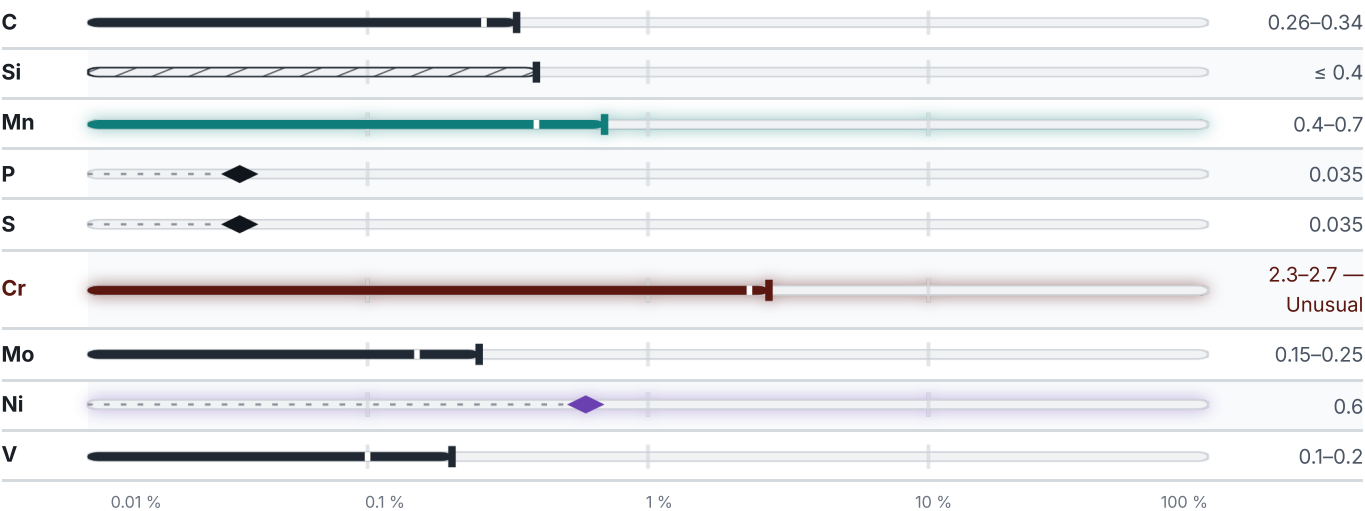
Chemical composition

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

computed from composition · °C

PREDICTED AE3 786 °C	PREDICTED AE1 776 °C	PREDICTED ACM 610 °C	PREDICTED BS 482 °C
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Mechanical properties

10 values across 3 conditions

QUENCHED AND TEMPERED			RM N/mm ²	A %	
≤ 160			900	12	
160 – 330			800	14	
QUENCHING 870°C, OIL, DRAWING 620°C, WATER	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
Ø 25	980	835	12	55	980
CONDITION · DIMENSION					HB
(annealing) , GOST 4543-71					229

Physical properties

3 values

PROPERTY	VALUE	UNIT
Density	7.73	g/cm³

Technological properties

PROPERTY	VALUE	UNIT
Flake sensitivity	predisposed	
Temper brittleness	predisposed	

Designations across standards

19 designations · 1 documented as identical

United States5		United States / Aerospace5	
G43406	uns	6359	ams
4340	aisi-sae	6409	ams
E4340	aisi-sae	6414	ams
A322	astm	6415	ams
A331	astm	6484	ams
		Russia / CIS3	
		30Ch3MF	gost
		30KH3MF	gost
		30X3MΦ	gost

Czechia	2	Europe	1
15241	csn	30CrMoV9	This grade's own name din-en
15330	csn		
Poland	2	Serbia	1
30H2MF	pn	Č.4734	srps
33H3MF	pn		

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 15241

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	1.7707	Aug 20, 2026