

MATERIAL NUMBER 1.7733 · CLASS 1.7

23H2MF

Material no. 1.7733

also listed as 24CrMoV5-5

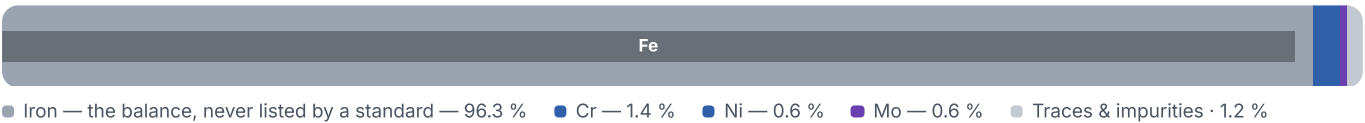
Chemical composition, mechanical and physical property values, and 31 standard designations from 14 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 31 in 14 regions	PROPERTY VALUES 10 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 798 °C	PREDICTED AE1 749 °C	PREDICTED ACM 535 °C	PREDICTED BS 515 °C
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Mechanical properties

5 values across 1 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
Casting, GOST 977-88	491	275	16	35	294

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
source joins the operations with + / procedural order		
Quenching	Temperature not stated	—
Tempering	Temperature not stated	—

Designations across standards

31 designations · 2 documented as identical

Russia / CIS	4	China	3
20KHMFL	gost	25Cr2Mo1VA	gb
20XМФЛ	gost	25Cr2MoVA	gb
25X1MΦ	gost	25CrMoVA	gb
ст.25X1MΦ	gost		
Czechia	4	United Kingdom	2
15236	csn	621	bs
15320	csn	671-850	bs
415320	csn	France	2
422744	csn	15CD5-05M	afnor
Poland	4	28CDV5	afnor
23H2MF	pn	Italy	2
24H2MF	pn	24CrMoV5-5	uni
26H2MF	pn	G15CrMo55	uni
L18HM	pn	Austria	2
United States	3	24CrMoV5-5	onorm
K11572	uns	GS17CrMo55	onorm
Gr.WC6	aisi-sae	Europe	1
A 182 F 11	astm	24CrMoV5-5	This grade's own name din-en
		Japan	1
		SCPH21	jis

Slovakia	1	Hungary	1
415320	stn	MCrMoV	msz
Serbia	1		
Č.7432	srps		

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 23H2MF
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	1.7733	Aug 20, 2026