

MATERIAL NUMBER 1.2365 · CLASS 1.2

3Ch3M3F

Material no. 1.2365

also listed as 32CrMoV12-28

Chemical composition, mechanical and physical property values, and 35 standard designations from 18 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.88 g/cm ³	35 in 18 regions	9 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.

Mechanical properties

3 values across 2 conditions

CONDITION · DIMENSION	HB	HRC
Annealed	229	–
Quenched and tempered	–	46
SOFT ANNEALED		HB
Soft annealed		229

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.88	g/cm³

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
Annealing	Temperature not stated	—

Designations across standards

35 designations · 4 documented as identical

France5			Europe2		
32CDV12-28	afnor		32CrMoV12-28	This grade's own name	din-en
32CrMoV12-28	afnor		X 32 CrMoV 3 3	This grade's own name	din-en
32DCV28	afnor		Spain2		
Z32CDV28	afnor		30CrMoV12		une
Z35CWDV5	afnor		F.5313CrMoV12		une
United States4			Japan2		
T20810	This grade's own name	uns	SKD62		jis
H10	This grade's own name	aisi-sae	SKD7		jis
H12		aisi-sae	Hungary2		
T20810		aisi-sae	CMV40		msz
Russia / CIS4			K14		msz
3Ch3M3F	gost		Austria2		
3H3M3F	gost		BOHLERW320		onorm
3KH3M3F	gost		W320		onorm
3X3M3Φ	gost		International1		
United Kingdom3			32CrMoV12-28		iso
2365	bs				
BH10	bs				
BH12	bs				

China	1	Serbia	1
3Cr3Mo3V	gb	Č.7450	srps
Italy	1	Poland	1
30CrMoV12-27KU	uni	WLV	pn
Czechia	1	Romania	1
19541	csn	31VMoCr29	stas
Slovakia	1	Bulgaria	1
19 541	stn	32CrMoV12-28	bds

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 3Ch3M3F

Quotation, availability, mill certificate or a technical question — directly on the material page.

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DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026