SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.2365 · CLASS 1.2

BOHLERW320

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/cm³	35 in 18 regions	9 on file

Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 92.8 % · Cr — 3 % · Mo — 2.8 % · V — 0.6 % · Traces & impurities · 0.9 %

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

France (5)

32CDV12-28	afnor
32CrMoV12-28	afnor
32DCV28	afnor
Z32CDV28	afnor
Z35CWDV5	afnor

United States (4)

T20810 This grade's own name	uns
H10 This grade's own name	aisi-sae
H12	aisi-sae
T20810	aisi-sae

Russia / CIS (4)

3Ch3M3F	gost
3H3M3F	gost
3KH3M3F	gost
3Х3М3Ф	gost

United Kingdom (3)

2365	bs
BH10	bs
BH12	bs

Europe (2)

32CrMoV12-28 This grade's own name	din-en
X 32 CrMoV 3 3 This grade's own name	din-en

Spain (2)

30CrMoV12	une
F.5313CrMoV12	une

Japan (2)

SKD62	jis
SKD7	jis

Hungary (2)

CMV40	msz
K14	msz

Austria (2)

BOHLERW320	onorm
W320	onorm

International (1)

32CrMoV12-28	iso

China	1
3Cr3Mo3V	gb

Italy	1
30CrMoV12-27KU	uni

Czechia	1
19541	csn

Slovakia	1
19 541	stn

Serbia	1
Č.7450	srps

Poland	1
WLV	pn

Romania	1
31VMoCr29	stas

Bulgaria	1
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.

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.2365	Aug 20, 2026