

MATERIAL NUMBER 1.2363 · CLASS 1.2

BOHLERK305

Material no. 1.2363

also listed as X100CrMoV5

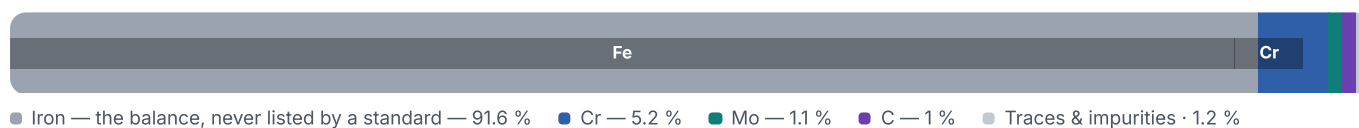
Chemical composition, mechanical and physical property values, and 32 standard designations from 16 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.7 g/cm ³	32 in 16 regions	15 on file

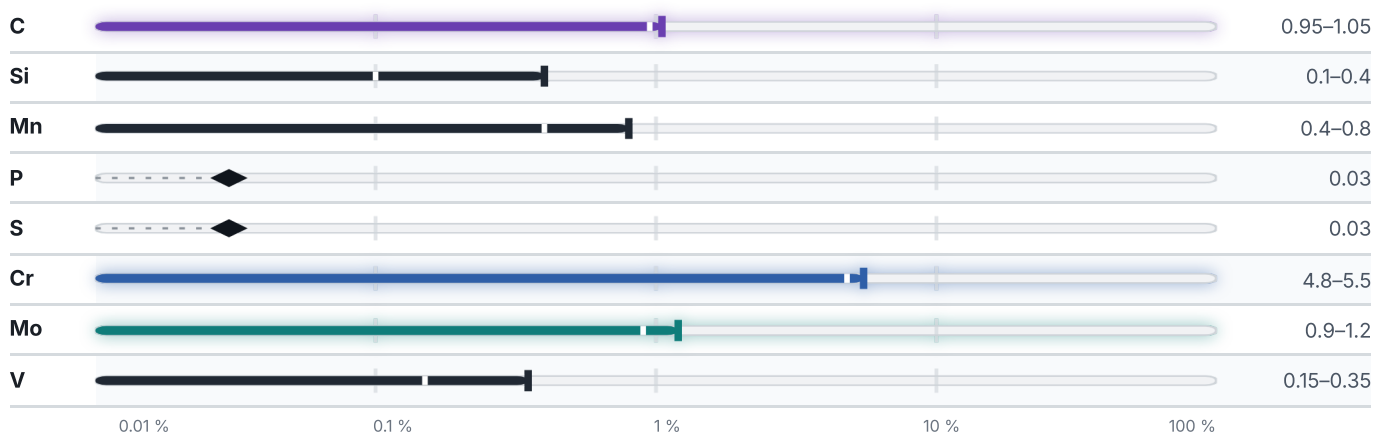
Chemical composition

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

5 values across 4 conditions

CONDITION · DIMENSION	HB	HRC
Annealed	241	—
Quenched and tempered	—	60
SOFT ANNEALED		HB
Soft annealed		241
CONDITION · DIMENSION		RM N/mm ²
0.1 - 4		880
CONDITION · DIMENSION		HB
(annealing) , GOST 5950-2000		241

Physical properties

7 values

PROPERTY	VALUE	UNIT
Density	7.7	g/cm ³
Transformation point Ac1	815	°C
Transformation point Ac3	845	°C
Transformation point Ar3	775	°C
Transformation point Ar1	625	°C

Technological properties

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

Heat treatment

2 regimes

STEP	TEMPERATURE	MEDIUM
Quenching	Temperature not stated	—
Annealing	Temperature not stated	—

Designations across standards

32 designations · 4 documented as identical

Russia / CIS	4	China	2
9KH5VF	gost	100CrMoV5	gb
9X5BΦ	gost	Cr5Mo1V	gb
KH6VF	gost		
X6BΦ	gost	Italy	2
		X100CrMoV51KU	uni
Europe	3	X100CrMoV5KU	uni
1.2363	din-en		
X100CrMoV5	din-en	Czechia	2
X100CrMoV5-1	din-en	19571	csn
		19571 przybliż.	csn
United States	3		
T30102	uns	Austria	2
A2	aisi-sae	BOHLERK305	onorm
T30102	aisi-sae	K305	onorm
France	3	United Kingdom	1
X100CrMoV5	afnor	BA2	bs
Z100CDV5	afnor		
Z100CVD5	afnor	Japan	1
		SKD12	jis
Spain	3		
F.5227X100CrMoV5	une	Sweden	1
grupa A2	une	2260	ss
X100CrMoV5	une		
		Slovakia	1
International	2	19 571	stn
X100CrMoV5	iso		
X100CrMoV5-1	iso	Serbia	1
		Č.4756	srps
		Poland	1
		NCLV	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 BOHLERK305

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	1.2363	Aug 20, 2026