SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.3243 · CLASS 1.3

Č.9780

Material no. 1.3243

also listed as HS6-5-2-5

Chemical composition, mechanical and physical property values, and 49 standard designations from 19 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
8.1 g/cm³	49 in 19 regions	15 on file

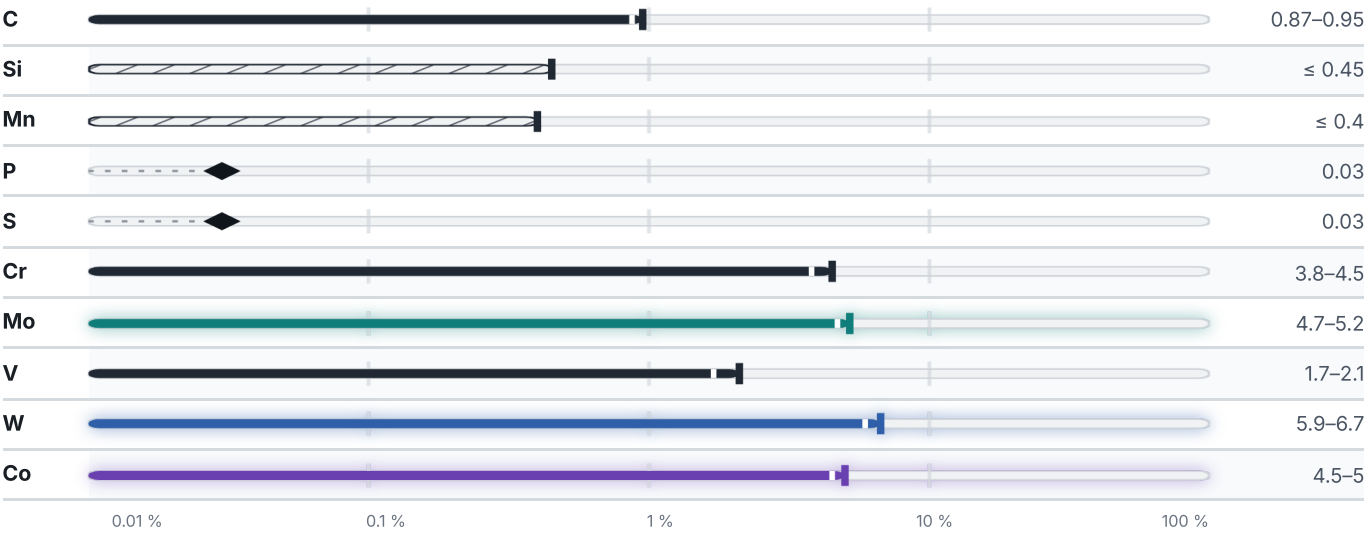
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 76.1 % · W — 6.3 % · Mo — 5 % · Co — 4.8 % · Traces & impurities · 7.9 %

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

8 values across 4 conditions

CONDITION · DIMENSION	HB
Annealed	269

SOFT ANNEALED	HB
Soft annealed	269

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A5 %	Z %	KCU kJ/m²
As-delivered state	850	510	12	14	180

CONDITION · DIMENSION	HB
(annealing) , GOST 19265-73	269

Physical properties

5 values

CONDITION · DIMENSION	RHO g/cm³	E GPa	LAMBDA W/(m·K)	RHO_EL nΩ·m
20	8.2	220	–	458
100	–	–	27	–
200	–	–	28	–
300	–	–	29	–
400	–	–	30	–
500	–	–	32	–
600	–	–	36	–
700	–	–	34	–
900	–	–	29	–

PROPERTY	VALUE	UNIT
Density	8.1	g/cm³
Transformation point Ac1	840	°C
Transformation point Ac3	875	°C
Transformation point Ar3	805	°C
Transformation point Ar1	765	°C

Heat treatment

4 regimes

STEP	TEMPERATURE	MEDIUM
source joins the operations with + / procedural order		
Preheating	800–900 °C	—
Quenching	1190–1210 °C	—
Tempering	550 °C	—
Annealing	Temperature not stated	—
source joins the operations with + / procedural order		
Quenching	Temperature not stated	—
Tempering	Temperature not stated	—
Annealing	Temperature not stated	—

Designations across standards

49 designations · 4 documented as identical

France 12

06-05-05-04-02	afnor
6-5-2-5	afnor
HS6-5-2-5	afnor
HS6-5-2-5HC	afnor
HS6-5-2HC	afnor
Z85WDKCV	afnor
Z85WDKCV06	afnor
Z85WDKCV06-05-04-02	afnor
Z85WDKCV06-05-04-02-05	afnor
Z85WDKCV06-05-05-04-02	afnor
Z90WDKCV	afnor
Z90WDKCV06-05-05-04-02	afnor

United States 6

T11335	uns
T11341	uns
M35	aisi-sae
M41	aisi-sae
SIL 10 This grade's own name	aisi-sae
T11341	aisi-sae

Spain 5

6-5-2-5	une
EM35	une
F.5607	une
F.5613	une
HS6-5-2-5	une

Russia / CIS 4

R6M5K5	gost
R6M5K5-MP	gost
ДИ101-МП	gost
P6M5K5	gost

Europe 3

1.3243	din-en
HS6-5-2-5 This grade's own name	din-en
S 6-5-2-5 This grade's own name	din-en

United Kingdom 2

3243	bs
BM35	bs

China 2

N029	gb
W6Mo5Cr4V2Co5	gb

Sweden 2

2723	ss
2733	ss

Bulgaria 2

HS6-5-2-5	bds
R6M5K5	bds

Austria 2

BOHLERS705	onorm
S705	onorm

International 1

HS6-5-2-5	iso

Japan 1

SKH55	jis

Italy 1

HS6-5-2-5	uni

Czechia 1

19852	csn

Slovakia 1

19 852	stn

Serbia 1

Č.9780	srps

Poland 1

SK5M	pn

Hungary 1

R8	msz

South Korea 1

SKH55 This grade's own name	ks

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	1.3243	Aug 20, 2026