SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.3355 · CLASS 1.3

Č.6880

Material no. 1.3355

also listed as HS18-0-1

Chemical composition, mechanical and physical property values, and 43 standard designations from 21 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
8.7 g/cm³	43 in 21 regions	14 on file

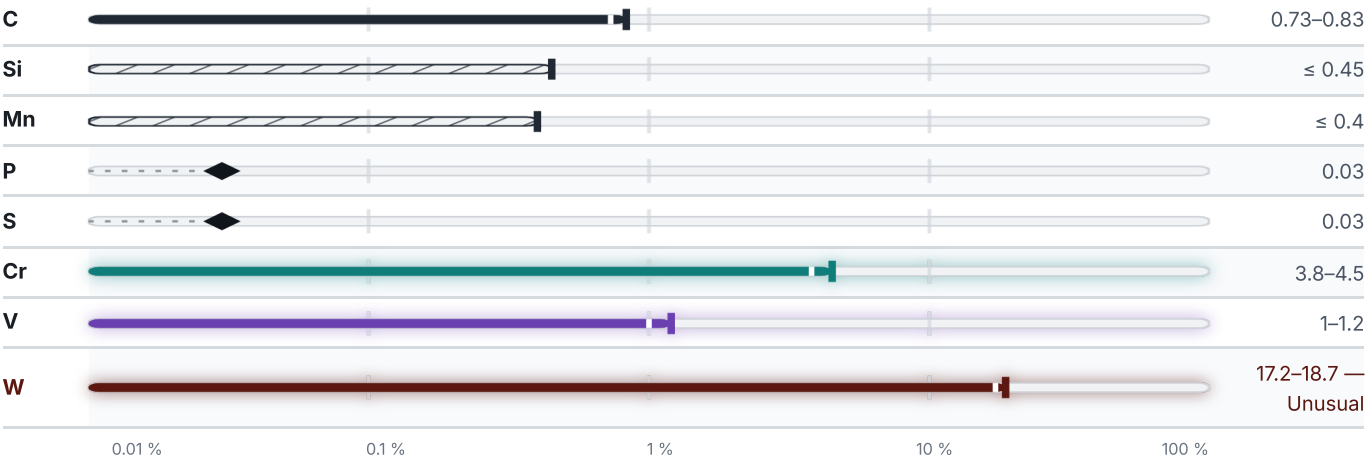
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 75.1 % · W — 18 % · Cr — 4.2 % · V — 1.1 % · Traces & impurities · 1.7 %

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, Mo.

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	840	510	8	10	190

CONDITION · DIMENSION	HB
(annealing) , GOST 19265-73	255

Physical properties

6 values

CONDITION · DIMENSION	RHO g/cm³	E GPa	LAMBDA W/(m·K)	RHO_EL nΩ·m
20	8.8	228	–	419
100	–	223	26	472
200	–	219	27	544
300	–	210	28	627
400	–	201	29	718
500	–	192	28	815
600	–	181	27	922
700	–	–	27	1037
800	–	–	–	1152
900	–	–	–	1173

PROPERTY	VALUE	UNIT
Density	8.7	g/cm³
Transformation point Ac1	820	°C
Transformation point Ac3	860	°C
Transformation point Ar3	770	°C
Transformation point Ar1	725	°C

Technological properties

PROPERTY	VALUE	UNIT
Weldability	without limitations.	

Heat treatment

4 regimes

STEP	TEMPERATURE	MEDIUM
source joins the operations with + / procedural order		
Preheating	800–900 °C	—
Quenching	1250–1270 °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

43 designations · 5 documented as identical

United States 5

T12001 This grade's own name	uns
T1 This grade's own name	aisi-sae
T12001	aisi-sae
AMS 5626	astm
T1	astm

Spain 5

18-0-1	une
ET1	une
F.5520	une
F.5601	une
HS18-0-1	une

France 4

18-04-01	afnor
HS18-0-1	afnor
Z80WCV	afnor
Z80WCV18-04-01	afnor

Europe 3

1.3355	din-en
HS18-0-1 This grade's own name	din-en
S18-0-1 This grade's own name	din-en

Italy 3

HS18-0-1	uni
X75W18KU	uni
X75WCrV18	uni

United Kingdom 2

3355	bs
BT1	bs

Japan 2

SKH	jis
SKH2	jis

Russia / CIS 2

R18	gost
P18	gost

Sweden 2

2721	ss
2750	ss

Czechia 2

19810	csn
19824	csn

Bulgaria 2

HS18-0-1	bds
R18	bds

Austria 2

BOHLERS200	onorm
S200	onorm

International 1

HS18-0-1	iso

United States / Aerospace 1

5626	ams

China 1

W18Cr4V	gb

Slovakia 1

19 824	stn

Serbia 1

Č.6880	srps

Poland 1

SW18	pn

Hungary 1

R3	msz

Romania 1

Rp3	stas

South Korea 1

SKH2 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.

Enquiry about Č.6880

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	1.3355	Aug 20, 2026