SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.0436 · CLASS 1.0

P305GH

Material no. 1.0436

Chemical composition, mechanical and physical property values, and 38 standard designations from 14 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	38 in 14 regions	12 on file

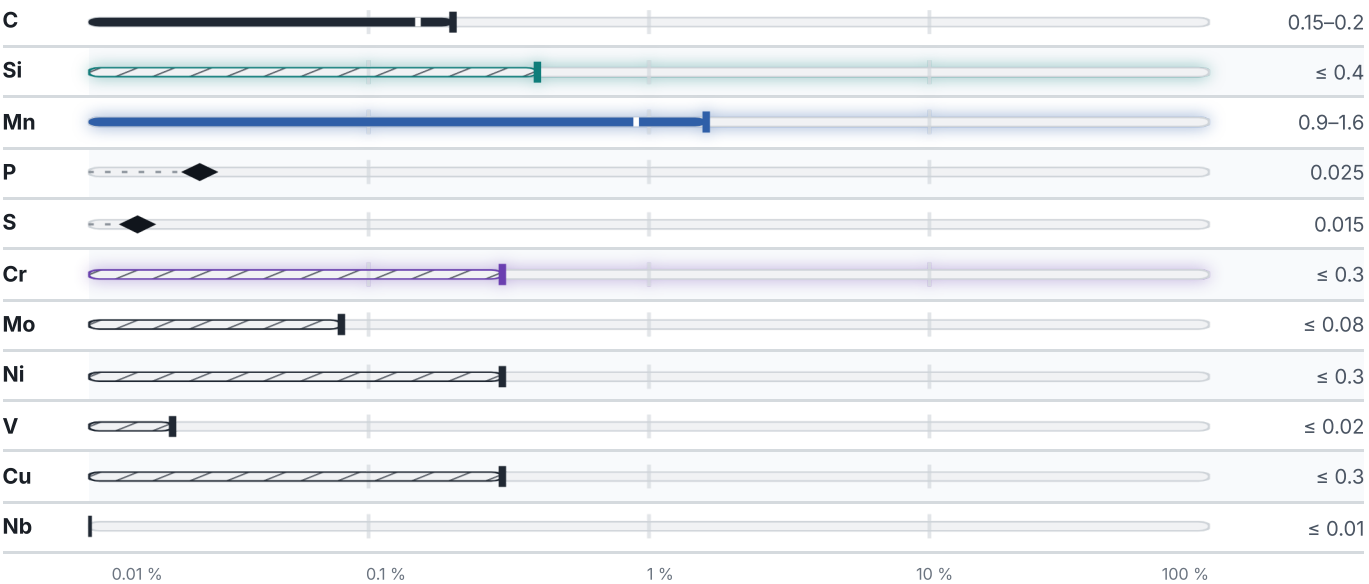
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 97.1 % · Mn — 1.3 % · Si — 0.4 % · Cr — 0.3 % · 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

computed from composition · °C

PREDICTED AE3	PREDICTED AE1	PREDICTED ACM	PREDICTED BS
808 °C	712 °C	436 °C	551 °C

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

38 designations · 4 documented as identical

United States (10)

K02007 This grade's own name	uns
K02403 This grade's own name	uns
K03006 This grade's own name	uns
K12447	uns
K02100	aisi-sae
K02704	aisi-sae
K02707	aisi-sae
K02800	aisi-sae
K03006	aisi-sae
X46	aisi-sae

United Kingdom (4)

151-430	bs
161-430	bs
223-460	bs
430LT	bs

Japan (4)

SG325	jis
SPV315	jis
STB410	jis
STPT480	jis

Czechia (4)

11 481	csn
11444	csn
11478	csn
12022	csn

Italy (3)

C18	uni
Fe510-1KG	uni
Fe510-1KW	uni

France (2)

A48AP	afnor
A48FP	afnor

Russia / CIS (2)

18k	gost
18K	gost

Poland (2)

K18	pn
St44K	pn

Hungary (2)

A45.47	msz
KL3	msz

Europe (1)

P305GH This grade's own name	din-en

Sweden (1)

2103	ss

Australia / New Zealand (1)

7-430R	as-nzs

Bulgaria (1)

18K	bds

Austria (1)

17Mn4KW	onorm

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 P305GH

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	1.0436	Aug 20, 2026