

MATERIAL NUMBER 1.0314 · CLASS 1.0

05KP

Material no. 1.0314

also listed as C2C

Chemical composition, mechanical and physical property values, and 21 standard designations from 14 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 21 in 14 regions	PROPERTY VALUES 13 on file
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Chemical composition

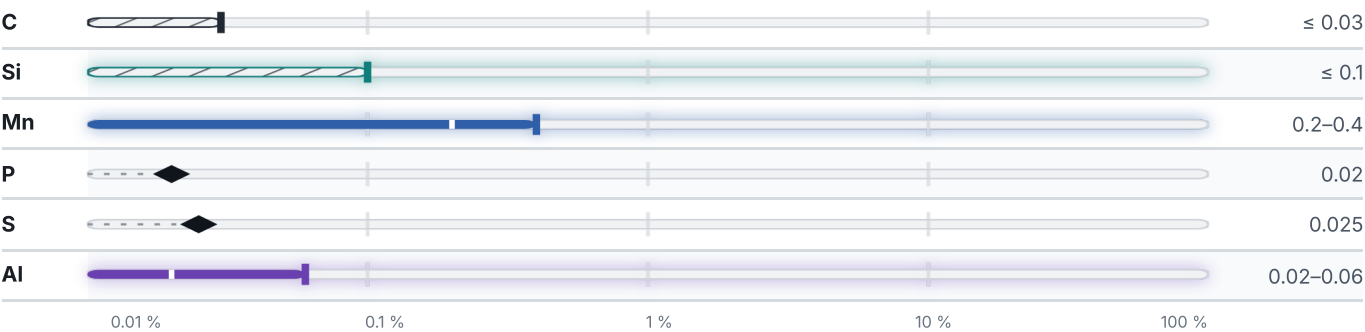
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 99.5 % ● Mn — 0.3 % ● Si — 0.1 % ● Al — 0 % ● Traces & impurities · 0.1 %

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, Cr, Mo.

Mechanical properties

3 values across 2 conditions

AS-DELIVERED STATE	RM N/mm ²	A5 %
4	255–370	28
CONDITION · DIMENSION		HB
(annealing)		111–131

Physical properties

7 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³
Transformation point Ac1	720	°C
Transformation point Ac3	880	°C
Transformation point Ar1	700	°C

Technological properties

PROPERTY	VALUE	UNIT
Weldability	without limitations.	
Flake sensitivity	not predisposed	
Temper brittleness	not predisposed	

Designations across standards

21 designations · 3 documented as identical

United States		4	Czechia		2
G10050	This grade's own name	uns	11300		csn
1005	This grade's own name	aisi-sae	11301		csn
G10050		aisi-sae			
G10060		aisi-sae	Europe		1
United Kingdom		2	C2C	This grade's own name	din-en
1CR		bs	Spain		1
2CR		bs	AP04		une
Russia / CIS		2	Japan		1
05kp		gost	SWRM6		jis
05кп		gost	Poland		1
Italy		2	05XA		pn
3CD5		uni	Hungary		1
3CD6		uni	ELFE		msz

Romania	1	Bulgaria	1
A5	stas	05KP	bds
Australia / New Zealand	1	Austria	1
CA4	as-nzs	UC6	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 05KP
Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

DATASHEET ONLINE View the material page	GRADE SEARCH Search all grades	MATERIAL NO. 1.0314	ISSUED Aug 20, 2026
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