

MATERIAL NUMBER 1.0314 · CLASS 1.0

05XA

Material no. 1.0314

also listed as C2C

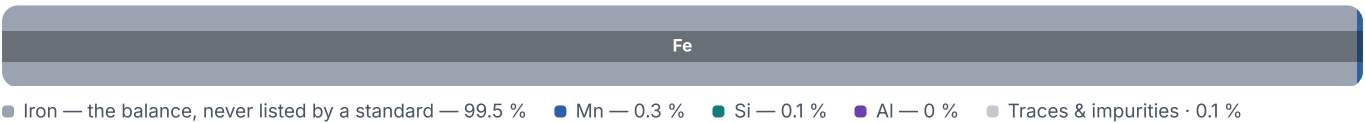
Chemical composition, mechanical and physical property values, and 21 standard designations from 14 regions.

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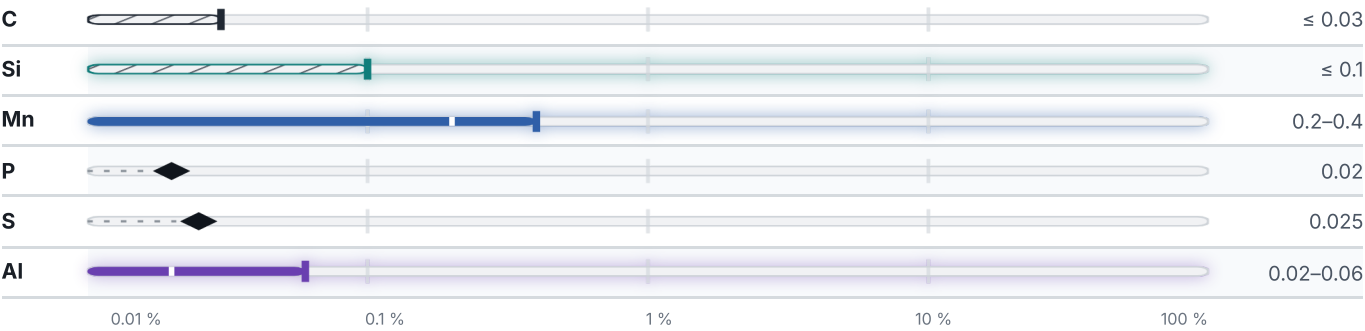
Chemical composition

Mass fraction in %

What this alloy is



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 States4		Czechia2	
G10050	This grade's own nameuns	11300	csn
1005	This grade's own nameaisi-sae	11301	csn
G10050	aisi-sae	Europe1	
G10060	aisi-sae	C2C	This grade's own namedin-en
United Kingdom2		Spain1	
1CR	bs	AP04	une
2CR	bs	Japan1	
Russia / CIS2		SWRM6	jis
05kp	gost	Poland1	
05кп	gost	05XA	pn
Italy2		Hungary1	
3CD5	uni	ELFE	msz
3CD6	uni		

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 05XA
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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