

MATERIAL NUMBER 1.0314 · CLASS 1.0

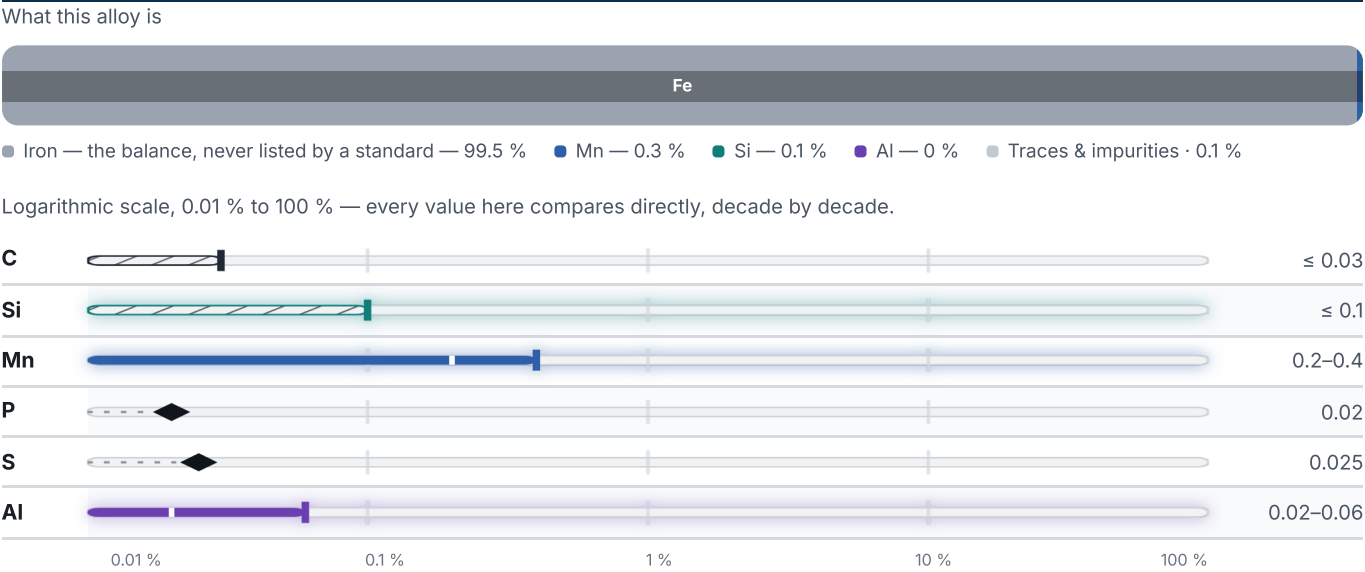
1.0314

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 %



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	Spain		1
G10050	This grade's own name	uns	AP04		une
1005	This grade's own name	aisi-sae	Japan		1
G10050		aisi-sae	SWRM6		jis
G10060		aisi-sae	Poland		1
United Kingdom		2	05XA		pn
1CR		bs	Hungary		1
2CR		bs	ELFE		msz
Russia / CIS		2	Romania		1
05kp		gost	A5		stas
05кп		gost	Australia / New Zealand		1
Italy		2	CA4		as-nzs
3CD5		uni	Bulgaria		1
3CD6		uni	05KP		bds
Czechia		2	Austria		1
11300		csn	UC6		onorm
11301		csn			
Europe		1			
C2C	This grade's own name	din-en			

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 1.0314
Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

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ISSUED
Aug 20, 2026