

MATERIAL NUMBER 1.0443 · CLASS 1.0

1305

Material no. 1.0443

also listed as H 300 PD

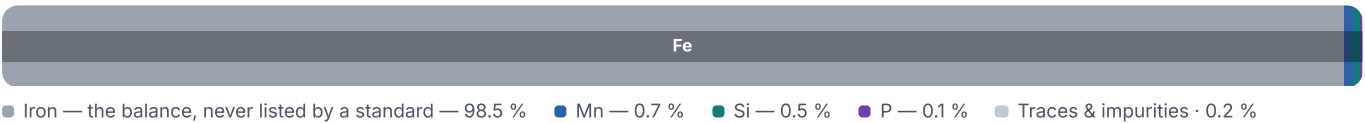
Chemical composition, mechanical and physical property values, and 39 standard designations from 14 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 39 in 14 regions	PROPERTY VALUES 14 on file
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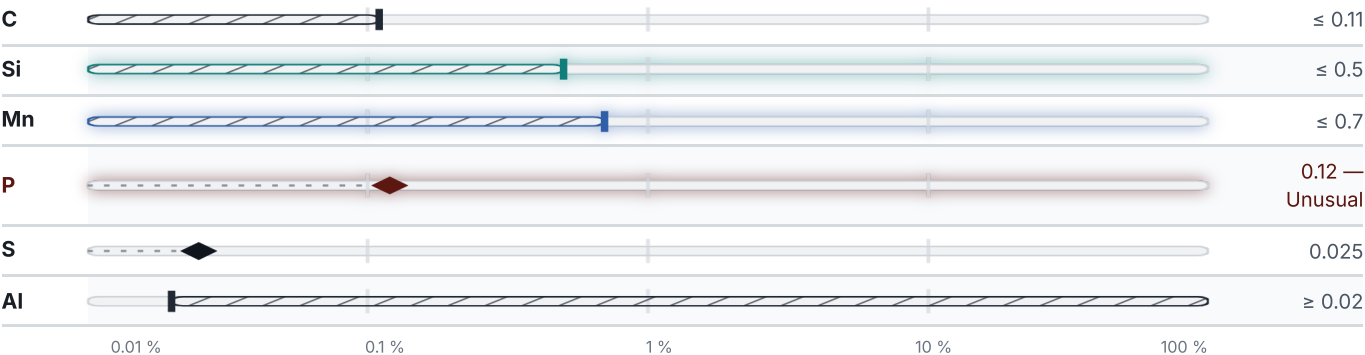
Chemical composition

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

5 values across 1 conditions

NORMALIZING 880 - 900°C, DRAWING 630 - 650°C	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
to 100	412	216	22	35	491

Physical properties

8 values

CONDITION · DIMENSION	RHO g/cm ³	E GPa	ALPHA 10 ⁻⁶ /K	LAMBDA W/(m·K)	CP J/(kg·K)	RHO_EL nΩ·m
20	7.85	201	–	54	–	170
100	–	196	12.2	53	487	220
200	–	188	12.7	51	500	294
300	–	183	13.1	48	517	385
400	–	173	13.5	43	533	490
500	–	165	13.9	39	559	604
600	–	152	14.4	35	588	761
700	–	132	14.9	32	638	932
800	–	120	12.6	27	706	1101
900	–	–	12.4	27	706	1139

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³
Transformation point Ac1	735	°C
Transformation point Ac3	854	°C
Transformation point Ar3	835	°C
Transformation point Ar1	680	°C

Technological properties

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

Designations across standards

39 designations · 2 documented as identical

United States		9	Poland		3
1A		aisi-sae	L20		pn
2A		aisi-sae	L450		pn
A10		aisi-sae	LII400		pn
Gr.WCA		aisi-sae	Europe		
GrLCA		aisi-sae			
GrWCB		aisi-sae			
J02002		aisi-sae			
J02502		aisi-sae	H 300 PD	This grade's own name	din-en
N1		aisi-sae	HX 300 PD	This grade's own name	din-en
France		4	Italy		
230-400-M		afnor	FeG45		uni
A48M1		afnor	GC20		uni
FA-M		afnor	Czechia		
FB-M		afnor	422 640		csn
Japan		4	422 643		csn
SC410		jis	Bulgaria		
SC450		jis	25LI		bds
SC46		jis	25LII		bds
SCPH1		jis	Sweden		
Russia / CIS		4	1305		ss
20L		gost	Hungary		
20Л		gost	Ao450FK		msz
25L		gost	Romania		
25Л		gost	OT450-3		stas
United Kingdom		3	Austria		
161-430		bs	GS45		onorm
161-430A		bs			
430A		bs			

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 1305

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.

1.0443

ISSUED

Aug 20, 2026