

MATERIAL NUMBER 1.0443 · CLASS 1.0

H 300 PD

Material no. 1.0443

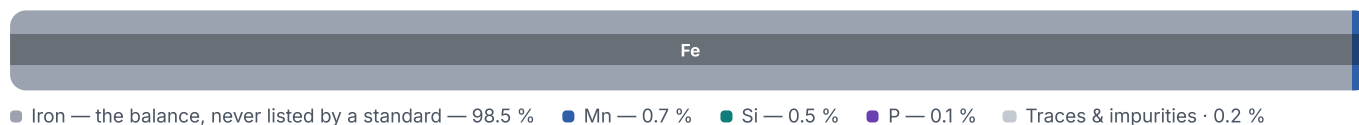
Chemical composition, mechanical and physical property values, and 39 standard designations from 14 regions.

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

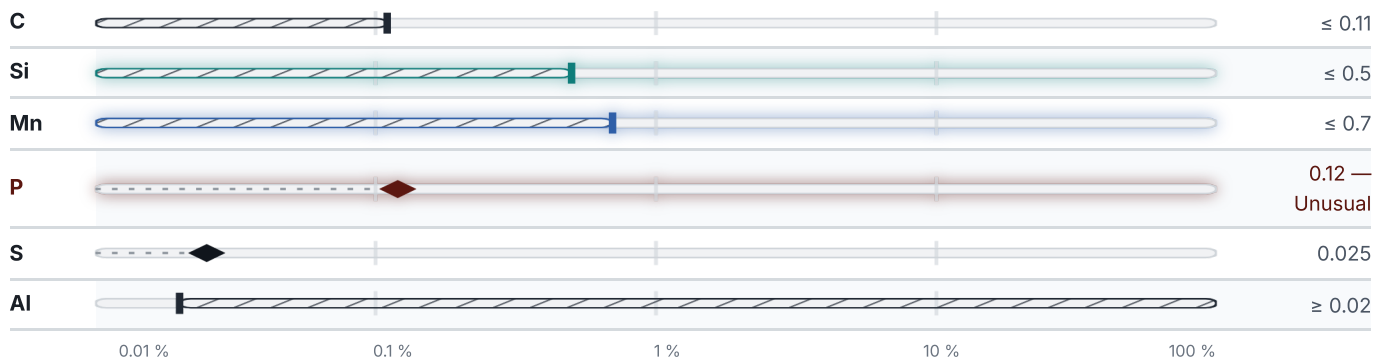
Chemical composition

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

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

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ISSUED

Aug 20, 2026