

MATERIAL NUMBER 1.0330 · CLASS 1.0

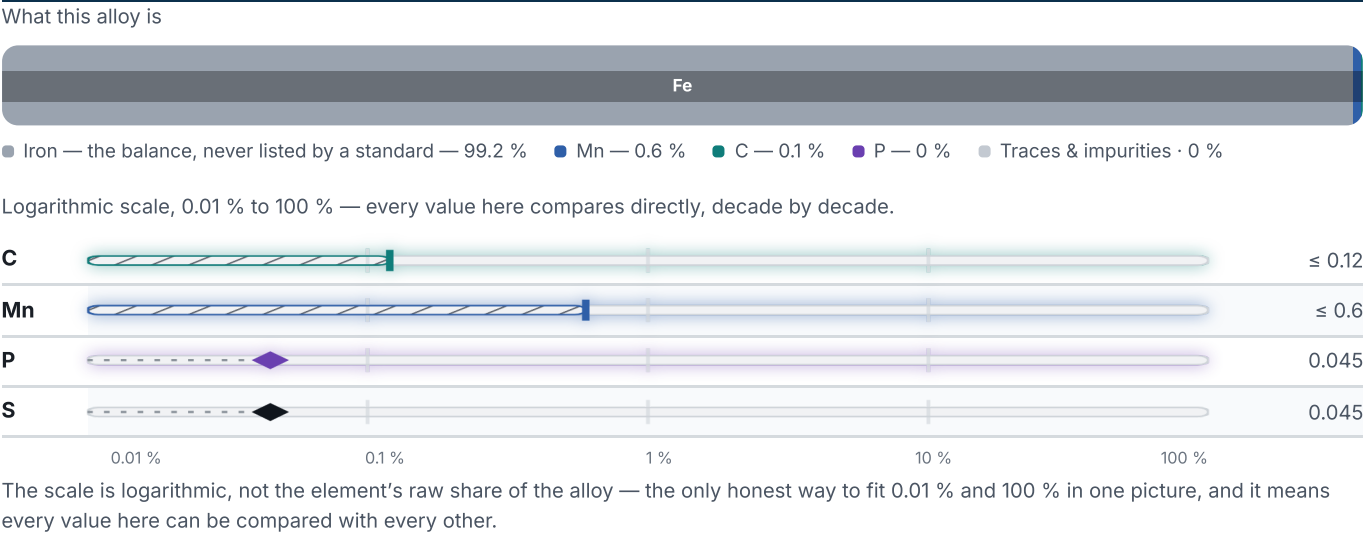
1.0330

Chemical composition, mechanical and physical property values, and 42 standard designations from 16 regions.

DENSITY 7.85 g/cm³	OTHER DESIGNATIONS 42 in 16 regions	PROPERTY VALUES 14 on file
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Chemical composition

Mass fraction in %



Predicted transformation temperatures

Not enough recorded composition to predict a transformation temperature for this grade — missing: Si, Ni, Cr, Mo.

Mechanical properties

20 values across 6 conditions

CONDITION · DIMENSION	RM N/mm²	A5 %	Z %	HB
Rolled stock, GOST 10702-78	370	8	55	—
(hot-rolled) , GOST 1050-88	—	—	—	131
(cold-drawn, cold-worked) , GOST 1050-88	—	—	—	179

CONDITION · DIMENSION	RM N/mm ²	A5 %	Z %	HB
Sheet GOST 4041-71	–	–	–	109
Rolled stock GOST 1050-88	–	–	–	131
SOFT ANNEALED				HV
Soft annealed				105
CONDITION · DIMENSION	RM N/mm ²	A5 %		
4 - 8	270–410		32	
CONDITION · DIMENSION	RM N/mm ²	Z %		
Bar cold-drawn , GOST 10702-78	310–410		55	
NORMALIZING	RM N/mm ²	RE N/mm ²	A5 %	Z %
to 80	320	196	33	60
NORMALIZING	RM N/mm ²	RE N/mm ²	A5 %	Z %
6 - 60	320	196	33	60

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	7.871	203	–	–	–	–
100	7.846	207	12.5	60	482	178
200	7.814	182	13.4	56	498	252
300	7.781	153	14	51	514	341
400	7.745	141	14.5	47	533	448
500	7.708	–	14.9	41	555	575
600	7.668	–	15.1	37	584	725
700	7.628	–	15.3	34	626	898
800	7.598	–	14.7	30	695	1073
900	7.602	–	12.7	27	703	1124
1000	–	–	13.8	–	695	–
PROPERTY	VALUE		UNIT			
Density	7.85		g/cm ³			

PROPERTY	VALUE	UNIT
Transformation point Ac1	735	°C
Transformation point Ac3	874	°C
Transformation point Ar3	854	°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

42 designations · 6 documented as identical

United States	10	United Kingdom	3
G10080 This grade's own name	uns	1449-2	bs
1008 This grade's own name	aisi-sae	CR4	bs
1012	aisi-sae	FeP01	bs
A620	aisi-sae	China	3
A622	aisi-sae	08	gb
G10080	aisi-sae	08F	gb
SAE1008	aisi-sae	DC01 This grade's own name	gb
SAE1010	aisi-sae	International	2
A366	astm	Cr01	iso
A619	astm	CR22	iso
Europe	5	Japan	2
DC 01 This grade's own name	din-en	SPCC	jis
FeP01	din-en	SPHE	jis
SAE1010	din-en	Russia / CIS	2
St 12 This grade's own name	din-en	08kp	gost
St 2 This grade's own name	din-en	08ps	gost
France	4	Spain	1
3C	afnor	AP00	une
C	afnor	Italy	1
F12	afnor	FeP01	uni
FeP01	afnor	Sweden	1
Czechia	4	1142	ss
11300	csn		
11304	csn		
11321	csn		
11331	csn		

Poland	1	Bulgaria	1
08Y	pn	08ps	bds
Slovakia	1	Austria	1
11 321	stn	St02F	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 1.0330
Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

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