

MATERIAL NUMBER 1.0322 · CLASS 1.0

FR8

Material no. 1.0322

also listed as DX 56 D

Chemical composition, mechanical and physical property values, and 60 standard designations from 18 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 60 in 18 regions	PROPERTY VALUES 10 on file
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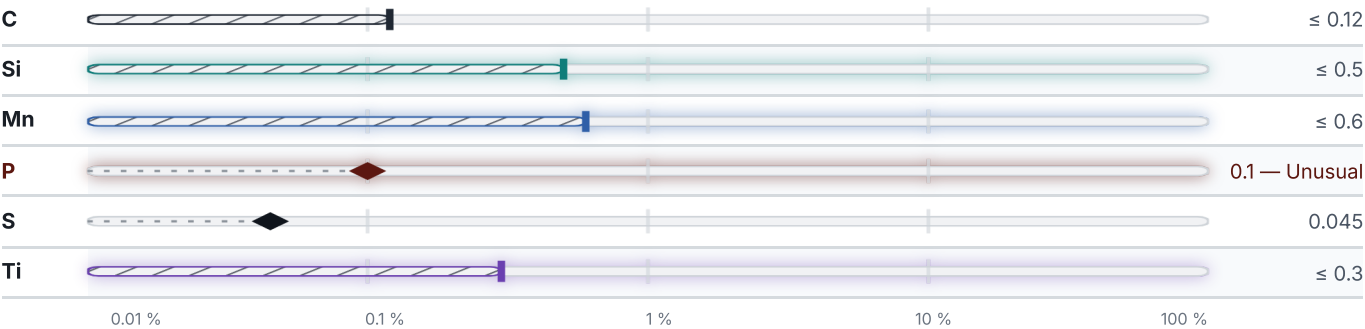
Chemical composition

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.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
Normalizing	Temperature not stated	—

Designations across standards

60 designations · 1 documented as identical

Australia / New Zealand	8	United Kingdom	6
1008	as-nzs	040A10	bs
CA1	as-nzs	1449-1HR	bs
CA2	as-nzs	1HR	bs
CA3	as-nzs	2HR	bs
CA4	as-nzs	DC01	bs
HA1	as-nzs	DD13	bs
HA3	as-nzs		
HA4N	as-nzs	Japan	4
		SPCC	jis
France	7	SPHE	jis
3C	afnor	SWRCH10R	jis
DC01	afnor	SWRCH8R	jis
DD13	afnor		
FB8	afnor	Czechia	4
Fd4	afnor	11304	csn
FR8	afnor	11320	csn
XC6	afnor	11321	csn
		11325	csn
Austria	7	Spain	3
St02F	onorm	AP13	une
St02FK32	onorm	DC01	une
St02FK40	onorm	DD13	une
St02FK50	onorm		
St02FK60	onorm	Bulgaria	3
St02FK70	onorm	08	bds
St24F	onorm	DD11	bds
		DD13	bds
United States	6		
1008	aisi-sae	China	2
1010	aisi-sae		
A619	aisi-sae	08F	gb
A622	aisi-sae	ML08	gb
G10080	aisi-sae		
G10120	aisi-sae		

Russia / CIS	2	Poland	1
08kp	gost	08X	pn
08кп	gost		
Italy	2	Hungary	1
DC01	uni	ASZ2	msz
FeP13	uni	Romania	1
Europe	1	A1n	stas
DX 56 D This grade's own name	din-en	Finland	1
Sweden	1	RACOLD01F	sfs
1147	ss		

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 FR8

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

[Start an enquiry](#)

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.0322	Aug 20, 2026