

MATERIAL NUMBER 1.0622 · CLASS 1.0

1.0622

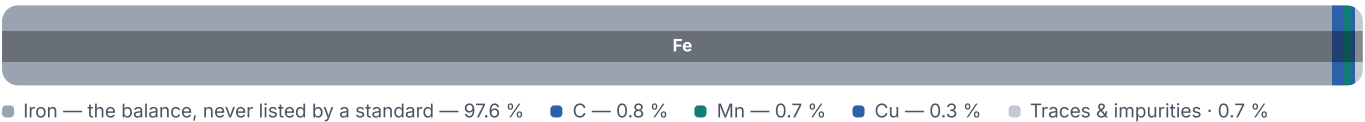
Chemical composition, mechanical and physical property values, and 16 standard designations from 6 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 16 in 6 regions	PROPERTY VALUES 14 on file
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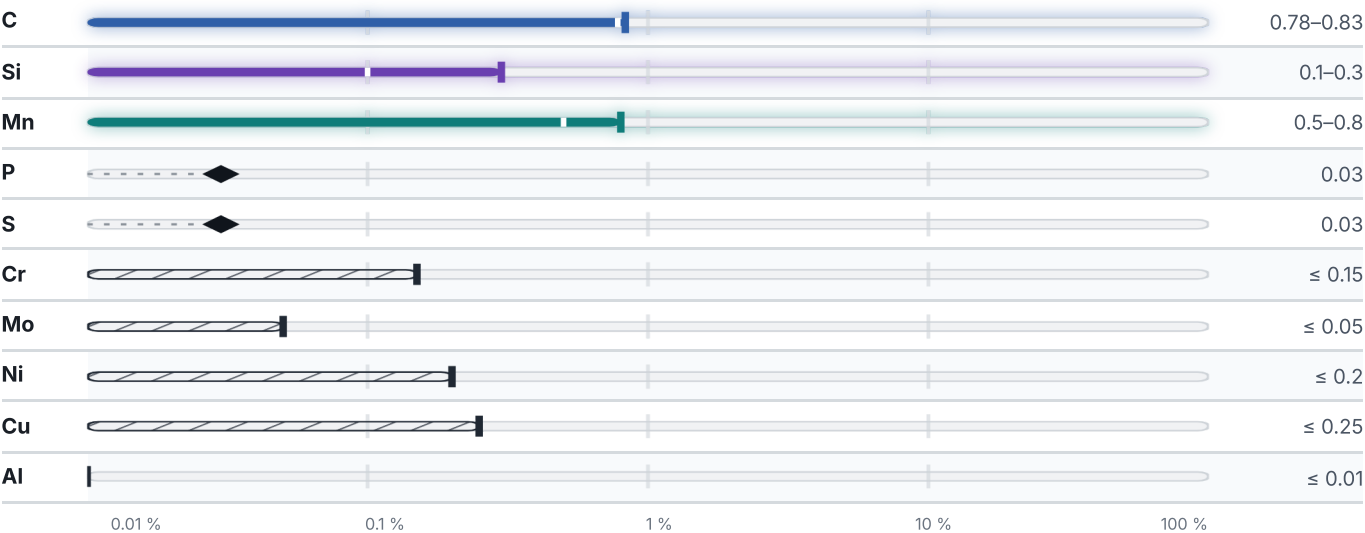
Chemical composition

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

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no transformation temperature is predicted here.

Physical properties

4 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Technological properties

PROPERTY	VALUE	UNIT
Weldability	is not used.	
Flake sensitivity	not predisposed	
Temper brittleness	not predisposed	

Heat treatment

2 regimes

STEP	TEMPERATURE	MEDIUM
source joins the operations with + / procedural order		
Quenching	Temperature not stated	—
Tempering	Temperature not stated	—
source joins the operations with + / procedural order		
Quenching	Temperature not stated	—
Tempering	Temperature not stated	—

Designations across standards

16 designations · 3 documented as identical

Russia / CIS	6	Poland	2
05KH12N6D2MFSGT	gost	D80	pn
05X12H6Д2МФСТ	gost	D80A	pn
80	gost		
80GSL	gost	Europe	1
80S	gost	C80D This grade's own name	din-en
ДІ80	gost		
United States	5	Japan	1
G10780 This grade's own name	uns	SUP3	jis
1078 This grade's own name	aisi-sae	Bulgaria	1
1080	aisi-sae	80	bds
G10780	aisi-sae		
G10800	aisi-sae		

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 1.0622

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

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DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026