

MATERIAL NUMBER 1.1625 · CLASS 1.1

Y90

Material no. 1.1625

also listed as C80W2

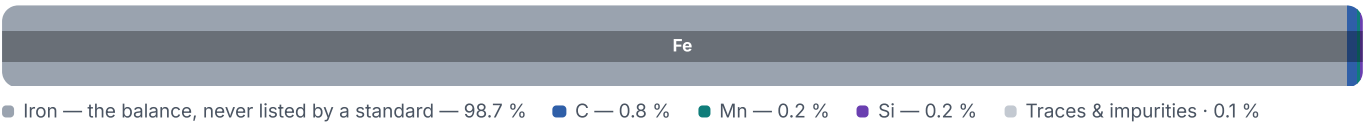
Chemical composition, mechanical and physical property values, and 27 standard designations from 15 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 27 in 15 regions	PROPERTY VALUES 6 on file
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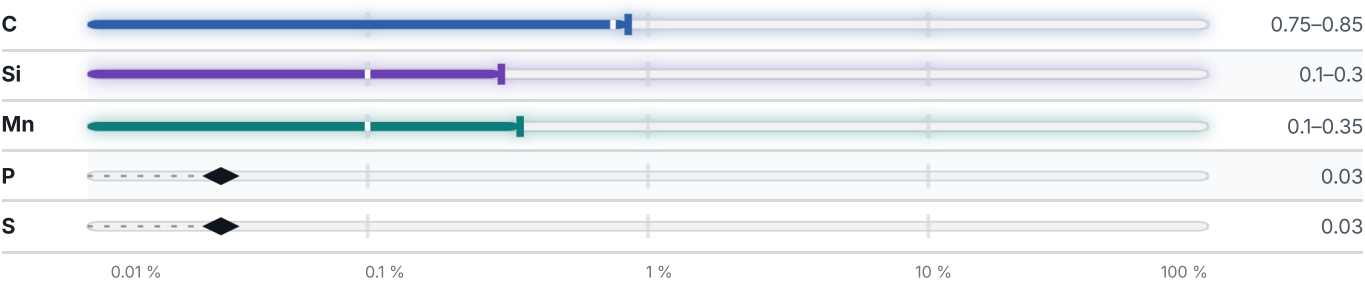
Chemical composition

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

Designations across standards

27 designations · 2 documented as identical

United States		4	Europe		1
T72301		uns	C80W2	This grade's own name	din-en
C 0.85		aisi-sae			
W 1		aisi-sae			
W1-7		aisi-sae			
France		4	Spain		1
C90E2U		afnor	F-513		une
Y1-70		afnor			
Y1-80		afnor			
Y90		afnor			
Japan		3	International		1
SK5		jis	C80U		iso
SK6		jis			
SKC3		jis			
Russia / CIS		3	China		1
U8		gost	T8		gb
U8A		gost			
Y8		gost			
United Kingdom		2	Italy		1
BW1A		bs	C80KU		uni
BW1B		bs			
Poland		2	Czechia		1
N8		pn	19 152		csn
N8E		pn			
			Romania		1
			OSC8		stas
			Austria		1
			K980		onorm
			South Korea		1
			SKC3	This grade's own name	ks

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 Y90

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.

1.1625

ISSUED

Aug 20, 2026