

MATERIAL NUMBER 1.0762 · CLASS 1.0

CF44SMn28

Material no. 1.0762

also listed as 44 SMn 28

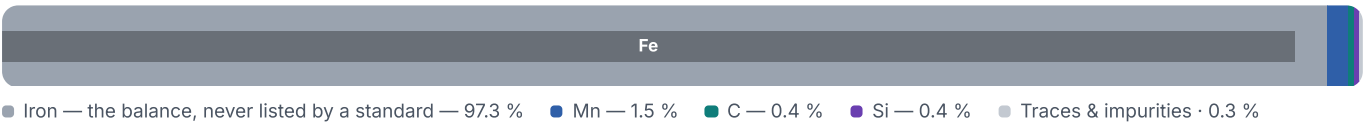
Chemical composition, mechanical and physical property values, and 52 standard designations from 19 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 52 in 19 regions	PROPERTY VALUES 10 on file
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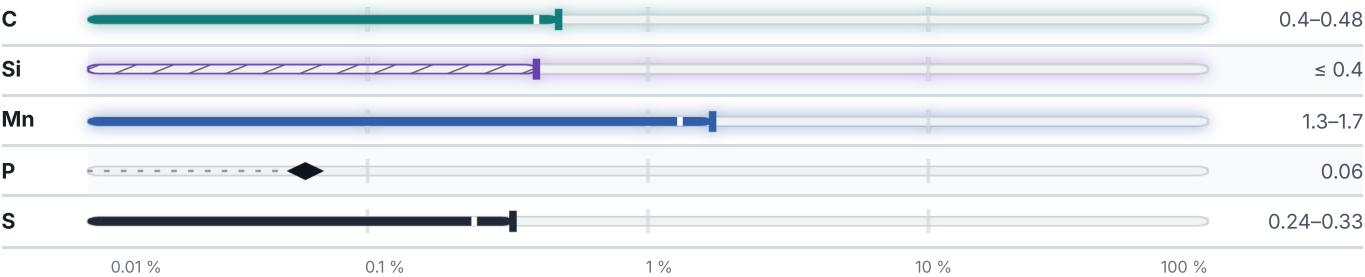
Chemical composition

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.

Mechanical properties

18 values across 4 conditions

COLD DRAWN / HARD	RM N/mm ²	A %
5 – 10	760–1030	5

COLD DRAWN / HARD	RM N/mm ²	A %
10 – 16	710–980	5
16 – 40	660–900	6
40 – 63	650–870	7
63 – 100	630–840	7

CONDITION · DIMENSION	RM N/mm ²	A5 %	Z %	HB
Rolled stock hotrolled, GOST 1414-75	590	14	20	–
Rolled stock GOST 1414-75	–	–	–	207
(annealing) , Rolled stock GOST 1414-75	–	–	–	229

CONDITION · DIMENSION	RM N/mm ²	A5 %
Rolled stock cold-drawn , GOST 1414-75	590	17

AS ROLLED AND TURNED	HB
As rolled and turned	181–242

Physical properties

5 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³
Transformation point Ac1	730	°C
Transformation point Ac3	830	°C

Technological properties

PROPERTY	VALUE	UNIT
Flake sensitivity	predisposed	
Temper brittleness	predisposed	

Heat treatment

2 regimes

STEP	TEMPERATURE	MEDIUM
Tempering	Temperature not stated	—
Tempering	Temperature not stated	—

Designations across standards

52 designations · 5 documented as identical

United States		13	Bulgaria		3
G11440	This grade's own name	uns	44SMn28		bds
1141		aisi-sae	45G2		bds
1144	This grade's own name	aisi-sae	A45		bds
1345		aisi-sae			
1345H		aisi-sae	Europe		2
C1144		aisi-sae	40S20		din-en
G11410		aisi-sae	44 SMn 28	This grade's own name	din-en
G11440		aisi-sae			
G11444		aisi-sae	France		2
G11460		aisi-sae	45MF4		afnor
G13450		aisi-sae	45MF6		afnor
H13450		aisi-sae			
C1144		astm	International		2
			35SMn20		iso
			44SMn28		iso
Japan		6	Spain		1
44SMn28	This grade's own name	jis			
SMn3		jis	45MnS6		une
SMn433		jis			
SMn433H		jis	Italy		1
SUM42		jis			
SUM43		jis	CF44SMn28		uni
Russia / CIS		5	Sweden		1
45G2		gost	2120		ss
45Г2		gost			
A40G		gost	Czechia		1
A40G		gost	11140		csn
A40Г		gost			
			Latin America		1
United Kingdom		4	1144		copant
216M36		bs			
225M36		bs	Hungary		1
226M44		bs	ANS2		msz
44SMn28		bs			
			Romania		1
China		3	AUT40Mn		stas
45Mn2		gb			
45Mn2A		gb	Australia / New Zealand		1
Y40Mn		gb	X1345		as-nzs
Poland		3	South Korea		1
45G2		pn	SUM43	This grade's own name	ks
A35G2		pn			
A45		pn			

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 CF44SMn28

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

[Start an enquiry](#)

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GRADE SEARCH
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ISSUED
Aug 20, 2026