

MATERIAL NUMBER 1.1165 · CLASS 1.1

G28Mn6

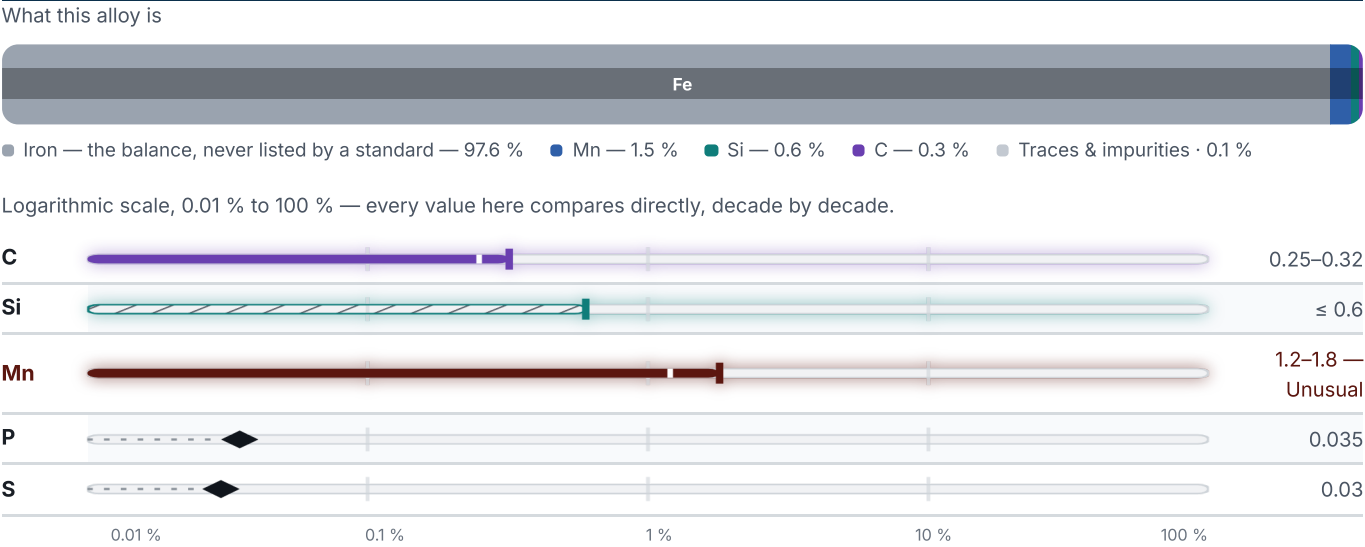
Material no. 1.1165

Chemical composition, mechanical and physical property values, and 56 standard designations from 16 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 56 in 16 regions	PROPERTY VALUES 9 on file
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Chemical composition

Mass fraction in %



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

10 values across 2 conditions

NORMALIZING 870 - 890°C, DRAWING 570 - 600°C	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
to 100	589	343	14	25	294

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
Casting, GOST 977-88	638	392	14	30	491

Physical properties

4 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Technological properties

PROPERTY	VALUE	UNIT
Weldability	hard weldability.	
Flake sensitivity	not predisposed	
Temper brittleness	not predisposed	

Designations across standards

56 designations · 4 documented as identical

United States		10	Japan		6
D50500	This grade's own name	uns	SCMn2		jis
G13300		uns	SCSiMn2		jis
H1330		uns	SMn423H		jis
1036		aisi-sae	SMn433		jis
1132		aisi-sae	SMn433H		jis
1330		aisi-sae	SMn438		jis
1330H		aisi-sae			
G11320		aisi-sae	Russia / CIS		4
G13300		aisi-sae	30G2		gost
H13300		aisi-sae	30GSL		gost
			30Г2		gost
			30ГЦЛ		gost
United Kingdom		8	Europe		3
120M36		bs	G28Mn6	This grade's own name	din-en
150M28		bs	GS-30 Mn 5	This grade's own name	din-en
150M36		bs	GS-30Mn5V		din-en
38Cr2		bs			
A5		bs	France		3
A6		bs	30Mn5		afnor
En15		bs	35M5		afnor
En15A		bs	40M5		afnor
Spain		6	China		3
30Mn5		une	30Mn2		gb
AM30Mn5		une	80	This grade's own name	gb
F.1203		une	ZG35SiMn		gb
F.1203-36Mn5		une			
F.8211		une			
F.8311		une			

Bulgaria	3	Romania	2
30G2	bds	T30Mn14R	stas
30GL	bds	T30SiMn12	stas
30GSL	bds		
Italy	2	Czechia	1
28Mn6	uni	13141	csn
C28Mn	uni	Poland	1
Hungary	2	30G2	pn
Ao30MnSi5	msz	Belgium	1
AO35MnSi5	msz	28Mn6	nbn
		South Korea	1
		SCMn2	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 G28Mn6
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	1.1165	Aug 20, 2026