

MATERIAL NUMBER 1.1165 · CLASS 1.1

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

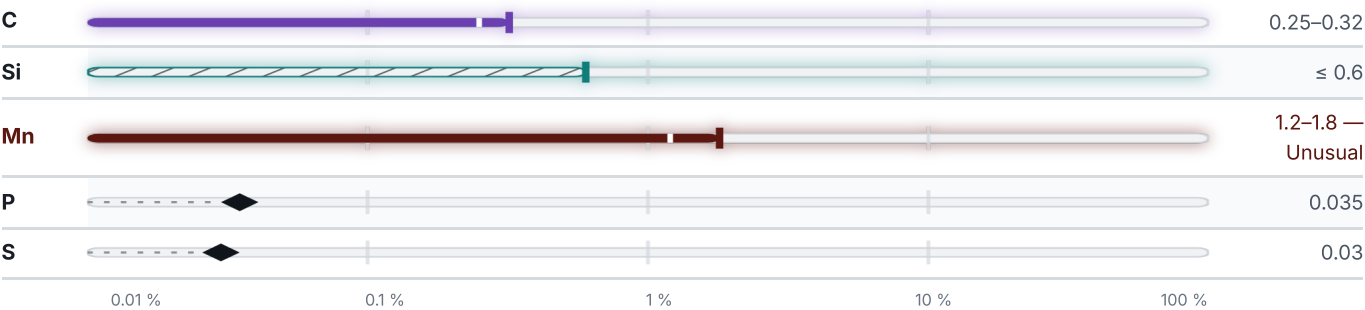
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 97.6 % ● Mn — 1.5 % ● Si — 0.6 % ● C — 0.3 % ● Traces & impurities · 0.1 %

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

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 States10		Japan6	
D50500	This grade's own nameuns	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 / CIS4	
G13300	aisi-sae	30G2	gost
H13300	aisi-sae	30GSL	gost
		30Г2	gost
		30ГЦЛ	gost
United Kingdom8		Europe3	
120M36	bs	G28Mn6	This grade's own namedin-en
150M28	bs	GS-30 Mn 5	This grade's own namedin-en
150M36	bs	GS-30Mn5V	din-en
38Cr2	bs		
A5	bs	France3	
A6	bs	30Mn5	afnor
En15	bs	35M5	afnor
En15A	bs	40M5	afnor
Spain6		China3	
30Mn5	une	30Mn2	gb
AM30Mn5	une	80	This grade's own namegb
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 1.1165
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