

MATERIAL NUMBER 1.0445 · CLASS 1.0

1.0445

Chemical composition, mechanical and physical property values, and 17 standard designations from 12 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 17 in 12 regions	PROPERTY VALUES 8 on file
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Chemical composition

Mass fraction in %

No chemical composition is on file for this material number.

Predicted transformation temperatures

Not enough recorded composition to predict a transformation temperature for this grade — missing: C, Mn, Si, Ni, Cr, Mo.

Mechanical properties

14 values across 2 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
Ø 325 × 30	480	280	28	57	1000
Ø 325 × 30	480	260	27	65	1200
CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	KCU kJ/m ²	
Sheet, GOST 5520-79	450–490	275–325	21	590	

Physical properties

8 values

CONDITION · DIMENSION	RHO g/cm ³	E GPa	ALPHA 10 ^{^-6} /K	CP J/(kg·K)
20	7.85	–	–	–
100	–	–	13	470

CONDITION · DIMENSION	RHO g/cm³	E GPa	ALPHA 10^-6/K	CP J/(kg·K)
200	–	–	14	–
300	–	181	15.3	–
400	–	172	16.2	–
500	–	162	16.1	–
600	–	–	16.2	–
PROPERTY		VALUE	UNIT	
Density		7.85	g/cm³	
Transformation point Ac1		736	°C	
Transformation point Ac3		920	°C	
Transformation point Ar3		791	°C	
Transformation point Ar1		641	°C	

Technological properties

PROPERTY	VALUE	UNIT
Weldability	without limitations.	
Flake sensitivity	not predisposed	
Temper brittleness	not predisposed	

Designations across standards

17 designations · 4 documented as identical

United States		4	International		1
K03101	This grade's own name	uns	P11		iso
K03102	This grade's own name	uns	Japan		
Gr.F		aisi-sae	SLA325A		jis
K01803		aisi-sae	Italy		
Europe		2	Fe460-1KG		uni
H300BD	This grade's own name	din-en	Czechia		
HX300BD	This grade's own name	din-en	11474		csn
Russia / CIS		2	Poland		
16GS		gost	15GA		pn
16FC		gost	Romania		
United Kingdom		1	16SiMn4		stas
223-490		bs			
France		1			
A48CP		afnor			

Bulgaria	1
16GS	bds

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 1.0445
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	1.0445	Aug 20, 2026