

MATERIAL NUMBER 1.0050 · CLASS 1.0

E295+CR

Material no. 1.0050

Chemical composition, mechanical and physical property values, and 78 standard designations from 23 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	78 in 23 regions	4 on file

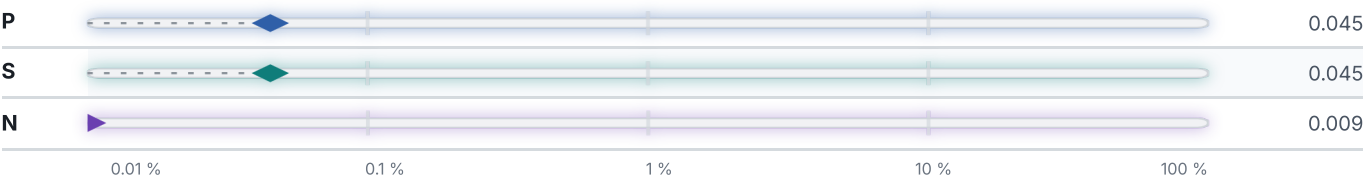
Chemical composition

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: C, Mn, Si, Ni, Cr, Mo.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

78 designations · 2 documented as identical

United States		12	Spain		4
A570	aisi-sae		A490	une	
A570(50)	aisi-sae		A490-2	une	
A570Gr.50	aisi-sae		E295	une	
A572	aisi-sae		Fe490-2FN	une	
A572(50)	aisi-sae				
A572Gr.50	aisi-sae		Japan		4
Gr.50	aisi-sae		SPHE	jis	
K02305	aisi-sae		SS 50	jis	
K02507	aisi-sae		SS490	jis	
A 570 Grade 50	astm		SS500	jis	
A 622	astm				
A570	astm		Sweden		4
			1550	ss	
			1550-00	ss	
			1550-01	ss	
			2172	ss	
United Kingdom		7	Bulgaria		4
1449 1 HR	bs		ASt5	bds	
43/35HS	bs		E295	bds	
4360-50B	bs		WSt5ps	bds	
50B	bs		WSt5sp	bds	
BS 1449 1 HR	bs				
E295	bs		International		3
Fe490-2FN	bs		E355-C	iso	
			Fe490	iso	
			Fe510-C	iso	
Russia / CIS		7	China		3
08кп	gost		Q275	gb	
S285	gost		Q275Z	gb	
St5ps	gost		Q345C	gb	
St5sp	gost				
C285	gost		Italy		3
CT.08кп	gost		E295	uni	
CT5cp	gost		Fe480	uni	
			Fe490	uni	
France		6	Hungary		3
3C	afnor		A 50	msz	
A50	afnor		E295	msz	
A50-2	afnor		Fe490-2	msz	
A60-2	afnor				
E295	afnor		Czechia		2
A 50-2	afnor		10 500 Hž	csn	
			11500	csn	
Europe		4			
E295	din-en				
E295+CR This grade's own name	din-en				
Fe490-2	din-en				
St 50-2 This grade's own name	din-en				

Poland	2	Serbia	1
MSt5	pn	Č.0545	srps
St5	pn		
Austria	2	Romania	1
St490	onorm	OL50.1	stas
St50F	onorm	Finland	1
		Fe50	sfs
Belgium	2	Switzerland	1
A490-1.2	nbn	St50-2	snv
FE490-2FN	nbn		
Slovakia	1	South Korea	1
11 500	stn	SS490	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 E295+CR

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	1.0050	Aug 20, 2026