

MATERIAL NUMBER 1.0070 · CLASS 1.0

A519 Grade 1030

Material no. 1.0070

also listed as E360

Chemical composition, mechanical and physical property values, and 31 standard designations from 17 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm ³	31 in 17 regions	5 on file

Chemical composition

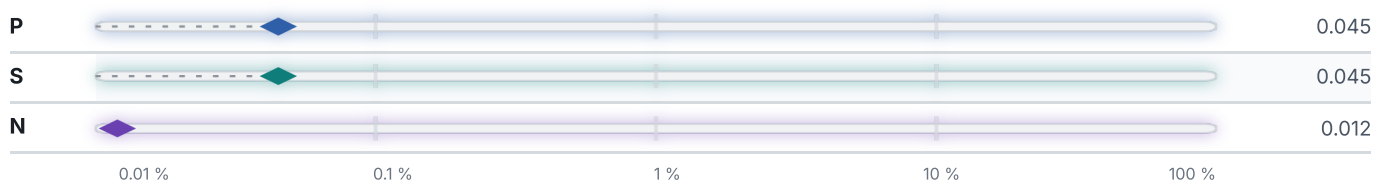
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 99.9 % ● P — 0 % ● S — 0 % ● N — 0 %

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.

Mechanical properties

33 values across 3 conditions

FLAT AND LONG PRODUCTS	REH N/mm ²	RM N/mm ²
≤ 3	—	690–900
3 – 100	—	670–830

FLAT AND LONG PRODUCTS	REH N/mm ²	RM N/mm ²	
≤ 16	360	–	
16 – 40	355	–	
40 – 63	345	–	
63 – 80	335	–	
80 – 100	325	–	
100 – 150	305	650–830	
150 – 250	–	640–830	
150 – 200	295	–	
CONDITION · DIMENSION	A80 % · Lo = 80 mm	A % · Lo = 5,65 √So	
≤ 1	4	–	
1 – 1.5	5	–	
1.5 – 2	6	–	
2 – 2.5	7	–	
2.5 – 3	8	–	
3 – 40	–	11	
40 – 63	–	10	
63 – 100	–	9	
100 – 150	–	8	
150 – 250	–	7	
CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %
2 - 3.9	510	375	14
4 - 10	510	375	20
10 - 20	490	355	20
20 - 40	480	335	20

Physical properties

2 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Technological properties

PROPERTY	VALUE	UNIT
Weldability	without limitations.	

Designations across standards

31 designations · 4 documented as identical

Europe	4	Sweden	2
1.0070	din-en	1655-00	ss
E360 This grade's own name	din-en	1655-01	ss
Fe690-2	din-en		
St 70-2 This grade's own name	din-en	Poland	2
		Mst7	pn
United States	2	St7	pn
A519 Grade 1030 This grade's own name	astm		
A572 This grade's own name	astm	Hungary	2
		A 70	msz
United Kingdom	2	Fe 690-2	msz
4360-55E	bs		
E360	bs	Austria	2
		St690	onorm
France	2	St70F	onorm
A70	afnor		
A70-2	afnor	China	1
		Q390C	gb
Spain	2		
A690	une	Czechia	1
A690-2	une	11700	csn
International	2	Slovakia	1
Fe690	iso	11 700	stn
FeE690	iso		
		Serbia	1
Russia / CIS	2	Č.0745	srps
S375	gost		
C375	gost	Belgium	1
		A690-1.2	nbn
Italy	2		
Fe680	uni		
Fe690	uni		

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 A519 Grade 1030

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

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ISSUED

Aug 20, 2026