

MATERIAL NUMBER 1.4749 · CLASS 1.4

1.4749

Chemical composition, mechanical and physical property values, and 25 standard designations from 9 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm ³	25 in 9 regions	8 on file

Chemical composition

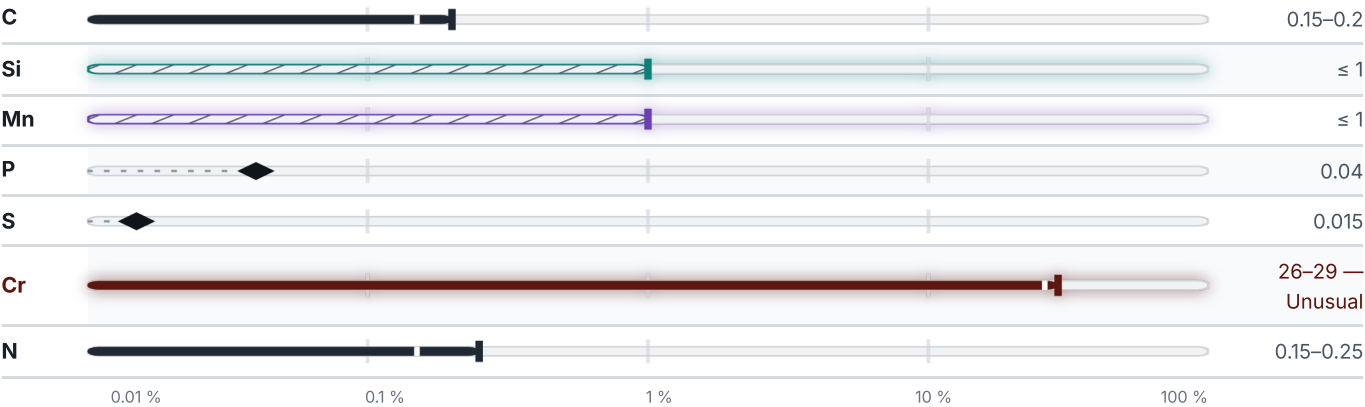
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 70.1 % ● Cr — 27.5 % ● Si — 1 % ● Mn — 1 % ● Traces & impurities · 0.4 %

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, Mo.

Mechanical properties

5 values across 2 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %	Z %
Bars/Rods Annealing	510	275	20	40
SOFT ANNEALED				HB
Soft annealed				212

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

25 designations · 4 documented as identical

United States		14	Russia / CIS		2
S44600	This grade's own name	uns	15Ch25T		gost
446	This grade's own name	aisi-sae	15X25T		gost
446-1		aisi-sae	Poland		2
51446		aisi-sae			
S44600		aisi-sae	H25		pn
A1012		astm	H25T		pn
A176		astm	International		1
A268		astm			
A276		astm	X15CrN26		iso
A314		astm	Japan		1
A473		astm			
A511		astm	SUH 446		jis
A580		astm	China		1
A815		astm			
Europe		2	2Cr25N		gb
X15CrN26	This grade's own name	din-en	Italy		1
X18CrN28	This grade's own name	din-en	X16Cr26		uni
			Sweden		1
			2322		ss

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 1.4749
Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

DATASHEET ONLINE

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GRADE SEARCH

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ISSUED

Aug 20, 2026