

MATERIAL NUMBER 1.4762 · CLASS 1.4

Z12CAS25

Material no. 1.4762

also listed as X10CrAl24

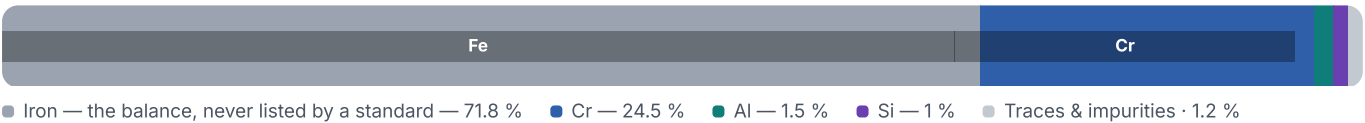
Chemical composition, mechanical and physical property values, and 24 standard designations from 12 regions.

DENSITY 7.9 g/cm³	OTHER DESIGNATIONS 24 in 12 regions	PROPERTY VALUES 10 on file
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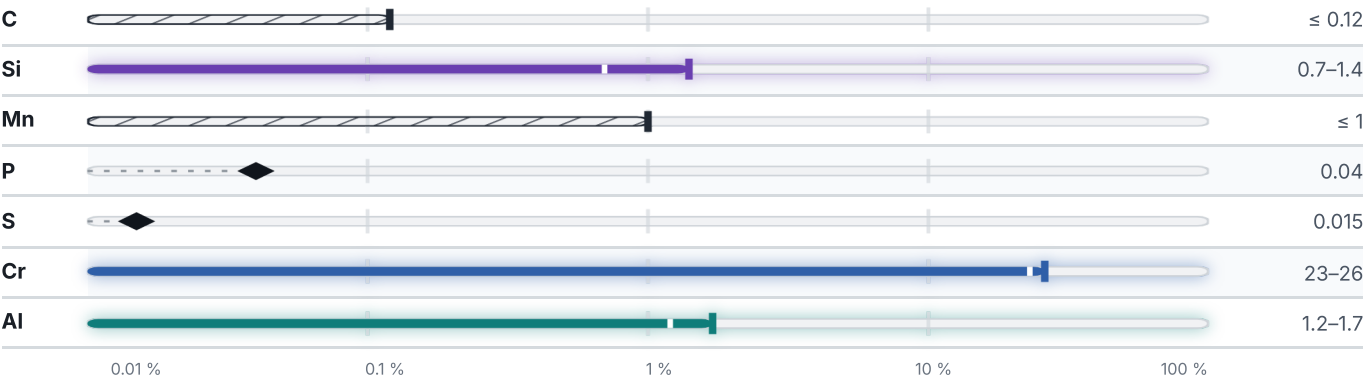
Chemical composition

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: Ni, Mo.

Mechanical properties

9 values across 4 conditions

SOFT ANNEALED				HB
Soft annealed				223
CONDITION · DIMENSION		RM N/mm²	A5 %	
Pipe hot strain, GOST 9940-81		441	17	
CONDITION · DIMENSION		RM N/mm²	RE N/mm²	A5 % Z %
Bar, GOST 5949-75		440	295	20 45
CONDITION · DIMENSION		RM N/mm²		A5 %
Sheet thin, GOST 5582-75		530		17

Physical properties

3 values

CONDITION · DIMENSION		RHO g/cm³	E GPa	ALPHA 10^-6/K
20		7.6	200	–
100		–	–	10
500		–	–	11
PROPERTY		VALUE	UNIT	
Density		7.9	g/cm³	

Technological properties

PROPERTY	VALUE	UNIT
Weldability	limited weldability.	
Temper brittleness	predisposed	

Designations across standards

24 designations · 2 documented as identical

Europe		4	Russia / CIS		4
1.4762	din-en		15KH28		gost
X10CrAl24	din-en		15X28		gost
X10CrAl24	This grade's own name	din-en	X28		gost
X10CrAlSi25	This grade's own name	din-en	ЭИ349		gost
			United States		3
			S44600		uns
			446		aisi-sae
			S44600		aisi-sae

Spain	3	China	1
F.3154	une	2Cr25N	gb
F.3154-X10CrAl24	une	Italy	1
X10CrAl24	une	X16Cr26	uni
France	2	Czechia	1
Z10CAS24	afnor	17153	csn
Z12CAS25	afnor	Serbia	1
Sweden	2	Č.4970	srps
2320	ss	Poland	1
2322	ss	H24JS	pn
Japan	1		
SUH446	jis		

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 Z12CAS25

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

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GRADE SEARCH

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ISSUED

Aug 20, 2026