

MATERIAL NUMBER 1.4024 · CLASS 1.4

SUS 410 J1

Material no. 1.4024

also listed as X15Cr13

Chemical composition, mechanical and physical property values, and 64 standard designations from 12 regions.

DENSITY 7.7 g/cm ³	OTHER DESIGNATIONS 64 in 12 regions	PROPERTY VALUES 7 on file
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Chemical composition

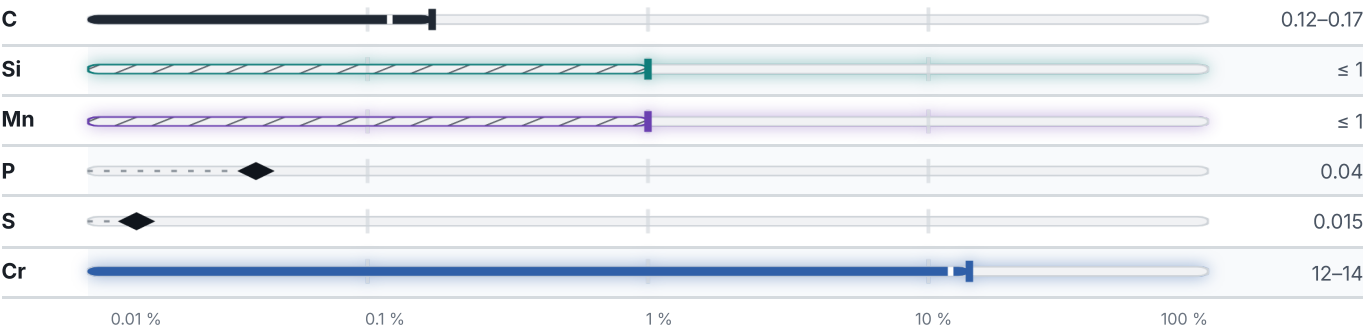
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 84.8 % ● Cr — 13 % ● Si — 1 % ● Mn — 1 % ● Traces & impurities · 0.2 %

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 1 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %	Z %	AK J/cm ²
Bars/Rods	690	490	20	60	98

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.7	g/cm ³

Designations across standards

64 designations · 3 documented as identical

United States		34	United States / Aerospace		12
Grade 410	uns		5350		ams
S41000	This grade's own name	uns	5504		ams
403	aisi-sae		5505		ams
410	This grade's own name	aisi-sae	5591		ams
51410	aisi-sae		5609		ams
A1012	astm		5611		ams
A1021	astm		5612		ams
A1028	astm		5613		ams
A1049	astm		5614		ams
A176	astm		5776		ams
A182	astm		5777		ams
A193	astm		5876		ams
A194	astm		United Kingdom		4
A240	astm		410S21		bs
A268	astm		420 S 29		bs
A276	astm		AMI 4006		bs
A314	astm		En 56 B		bs
A336	astm		Spain		3
A473	astm		F-3401		une
A479	astm		F.3415		une
A493	astm		X 10 Cr 13		une
A511	astm		Russia / CIS		3
A580	astm		12Ch13		gost
A815	astm		12H13		gost
A837	astm		12Kh13		gost
A988	astm		Japan		2
F1613	astm		SUS 410 J1		jis
F2215	astm		SUS 410J1FB		jis
F2281	astm		Europe		1
F593	astm		X15Cr13	This grade's own name	din-en
F594	astm				
F738	astm				
F899	astm				
Grade 410	astm				

International	1	Brazil	1
X12Cr13E	iso	410	abnt
Czechia	1	Serbia	1
17021	csn	Č.4171	srps
Poland	1		
1H13	pn		

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 SUS 410 J1

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	1.4024	Aug 20, 2026