

MATERIAL NUMBER 1.4935 · CLASS 1.4

S42100

Material no. 1.4935

also listed as X20CrMoWV12-1

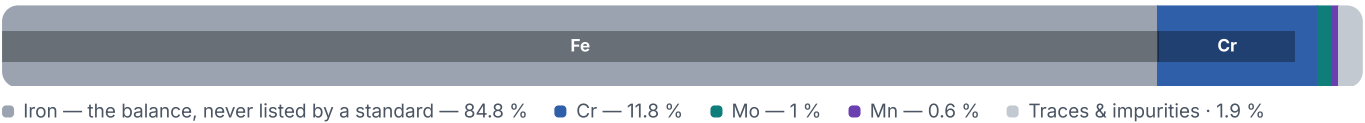
Chemical composition, mechanical and physical property values, and 16 standard designations from 4 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 16 in 4 regions	PROPERTY VALUES 11 on file
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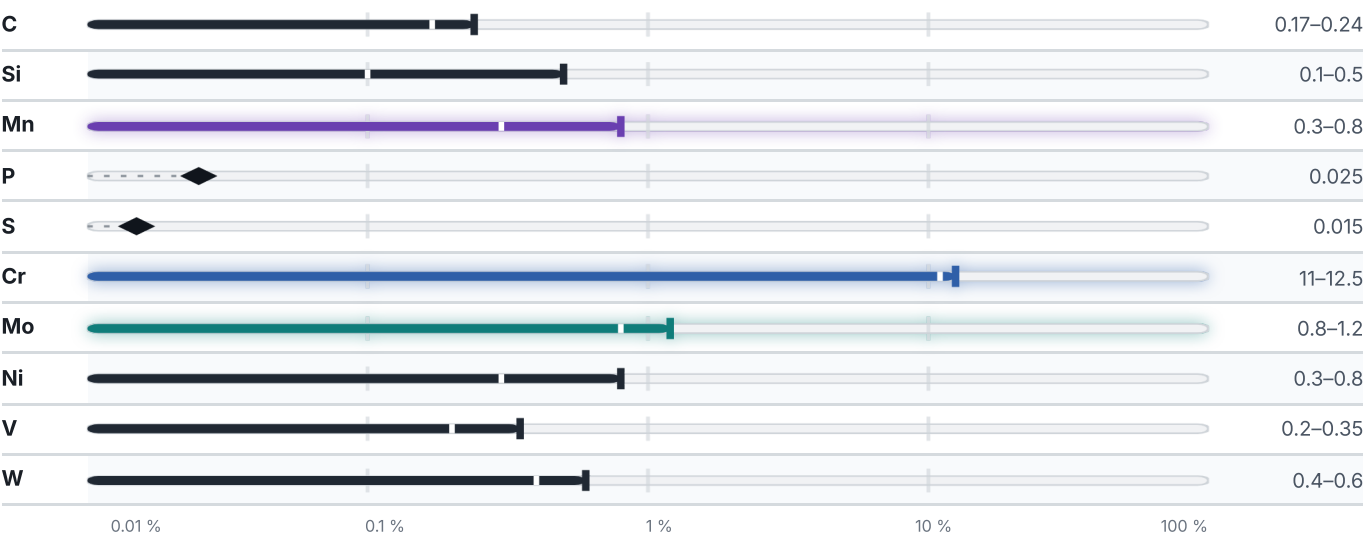
Chemical composition

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

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no

transformation temperature is predicted here.

Physical properties1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards16 designations · 5 documented as identical

United States	9	United States / Aerospace	5
R30155	uns	5532	ams
S42100 This grade's own name	uns	5655	ams
S42200 This grade's own name	uns	5769	ams
422 This grade's own name	aisi-sae	5794	ams
51422	aisi-sae	5795	ams
616 This grade's own name	aisi-sae		
661	aisi-sae	Europe	1
A 565	astm	X20CrMoWV12-1 This grade's own name	din-en
A176	astm		
		Japan	1
		SUH616	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 S42100

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	1.4935	Aug 20, 2026