

MATERIAL NUMBER 1.4935 · CLASS 1.4

X20CrMoWV12-1

Material no. 1.4935

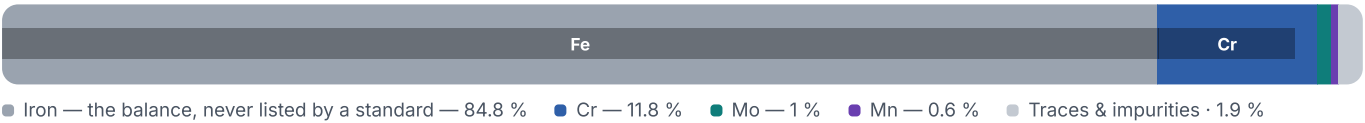
Chemical composition, mechanical and physical property values, and 16 standard designations from 4 regions.

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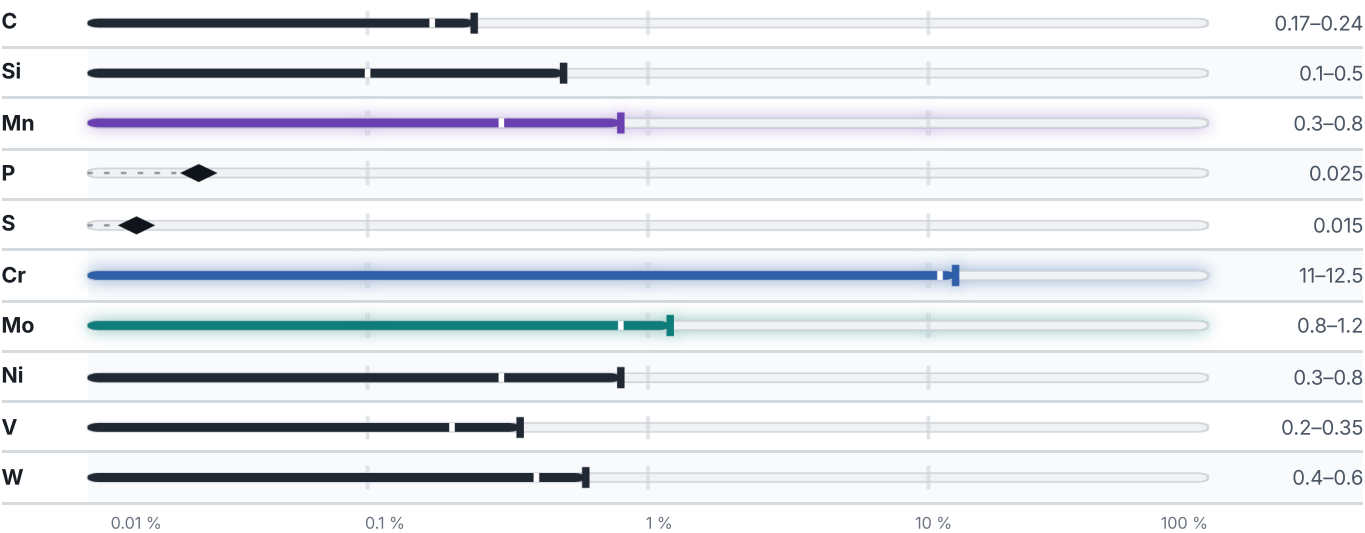
Chemical composition

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 properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Designations across standards

16 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	Europe		1
661		aisi-sae	X20CrMoWV12-1		din-en
A 565		astm	This grade's own name		
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 X20CrMoWV12-1

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