

MATERIAL NUMBER 1.6959 · CLASS 1.6

38ChN3MFA

Material no. 1.6959

also listed as 35NiCrMoV12-5

Chemical composition, mechanical and physical property values, and 4 standard designations from 2 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 4 in 2 regions	PROPERTY VALUES 11 on file
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Chemical composition

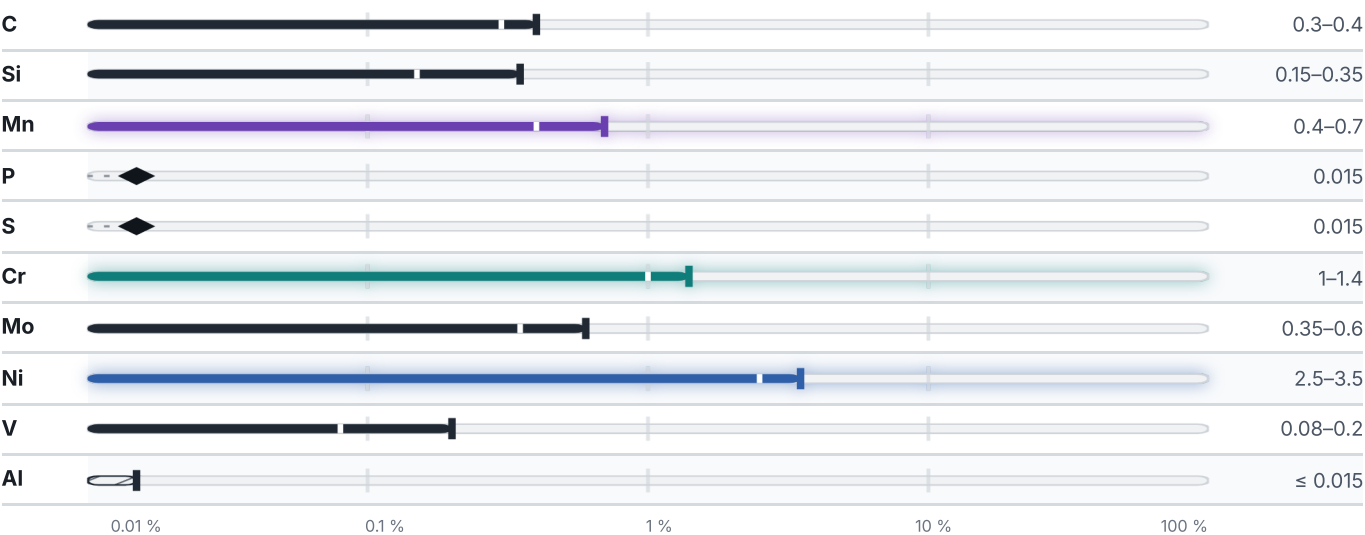
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 94 % ● Ni — 3 % ● Cr — 1.2 % ● Mn — 0.6 % ● Traces & impurities · 1.3 %

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 standards4 designations · 1 documented as identical

Russia / CIS	3	Europe	1
38ChN2MFA	gost	35NiCrMoV12-5	This grade's own name din-en
38ChN3MFA	gost		
38ChN3MFA-Sh	gost		

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 38ChN3MFA

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	1.6959	Aug 20, 2026