

MATERIAL NUMBER 1.3249 · CLASS 1.3

M33

Material no. 1.3249

also listed as HS2-9-2-8

Chemical composition, mechanical and physical property values, and 9 standard designations from 4 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm ³	9 in 4 regions	11 on file

Chemical composition

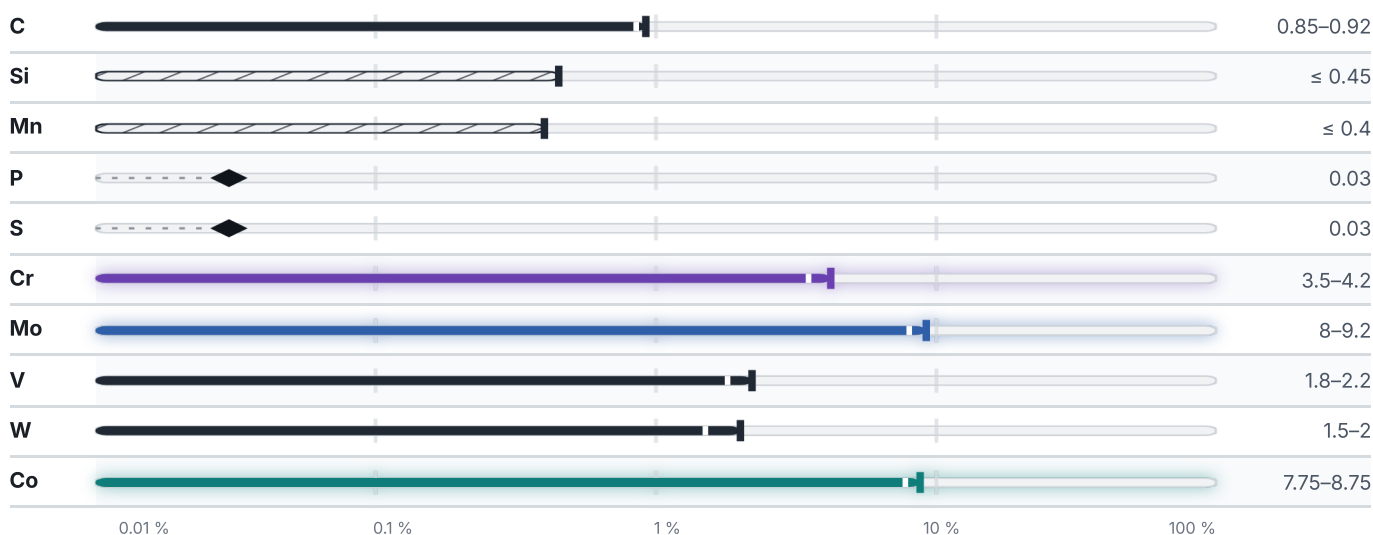
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 73.8 % ● Mo — 8.6 % ● Co — 8.3 % ● Cr — 3.9 % ● Traces & impurities · 5.5 %

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.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

9 designations · 6 documented as identical

United States		4	Spain		2
T11333	This grade's own name	uns	2-9-2-8		une
T11334	This grade's own name	uns	F.5611		une
M33	This grade's own name	aisi-sae	United Kingdom		1
M34	This grade's own name	aisi-sae	BM34		bs
Europe		2			
HS2-9-2-8	This grade's own name	din-en			
S 2-9-2-8	This grade's own name	din-en			

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 M33

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	1.3249	Aug 20, 2026