

ML35Cr

also listed as 34Cr4

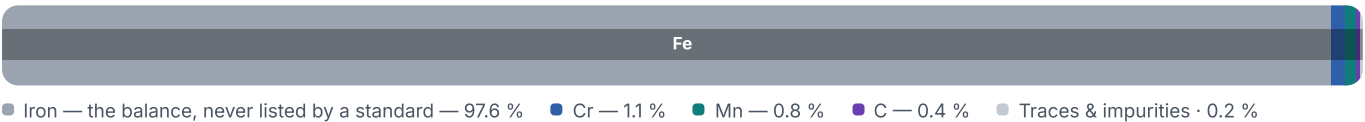
Chemical composition, mechanical and physical property values, and 5 standard designations from 5 regions.

OTHER DESIGNATIONS	PROPERTY VALUES
5 in 5 regions	7 on file

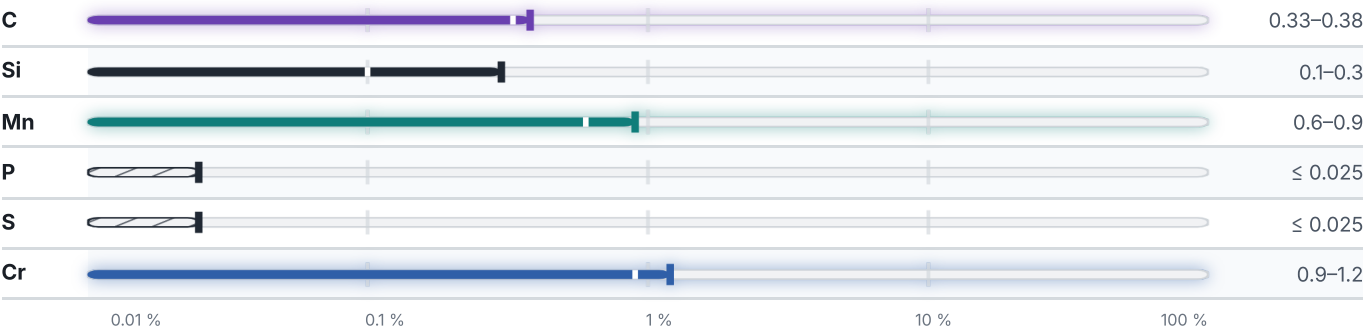
Chemical composition

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Ni, Mo.

Mechanical properties

4 values across 2 conditions

CONDITION · DIMENSION	RM N/mm ²
5(12)≤d≤60(100)	≤ 600

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A %
25 – 25	≥ 850	≥ 630	≥ 14

Heat treatment

2 regimes

STEP	TEMPERATURE	MEDIUM
source joins the operations with + / procedural order		
Quenching	830–870 °C	—
Tempering	540–680 °C	—
Annealing	Temperature not stated	—

Designations across standards

5 designations · 1 documented as identical

Europe	1	Japan	1
34Cr4	din-en	SCr435	jis
United States	1	China	1
5135	astm	ML35Cr This grade's own name	gb
International	1		
34Cr4	iso		

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 ML35Cr

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	—	Aug 15, 2026