

ML10Al

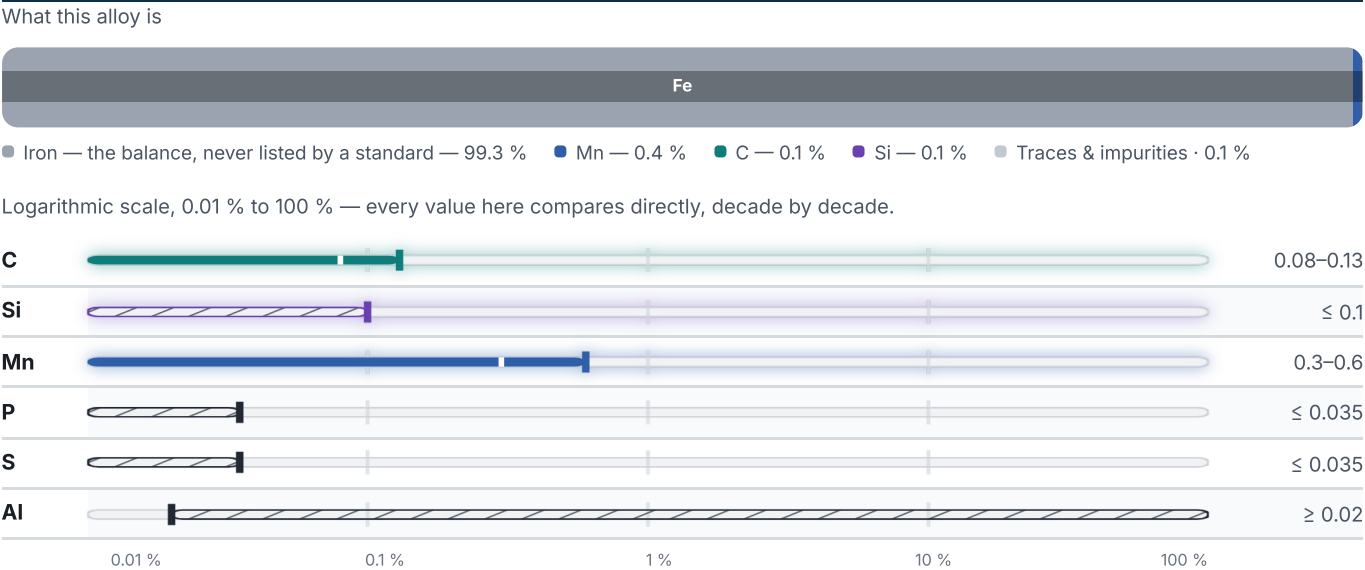
also listed as QSt36-3

Chemical composition, mechanical and physical property values, and 6 standard designations from 6 regions.

OTHER DESIGNATIONS	PROPERTY VALUES
6 in 6 regions	6 on file

Chemical composition

Mass fraction in %



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, Cr, Mo.

Mechanical properties

5 values across 2 conditions

CONDITION · DIMENSION	RM N/mm ²
≤ 12	≤ 430

CONDITION · DIMENSION			RM
			N/mm ²
≥ 12			≤ 430
CONDITION · DIMENSION		RM	RE
		N/mm ²	N/mm ²
25 – 25		400–700	≥ 250
			≥ 15

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
Annealing	Temperature not stated	—

Designations across standards

6 designations · 1 documented as identical

Europe	1	Japan	1
QSt36-3	din-en	SWRCH10A	jis
United States	1	China	1
1012	astm	ML10AI This grade's own name	gb
International	1	South Korea	1
CC8A	iso	SWCH10A	ks

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 ML10AI

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 14, 2026