

Y08

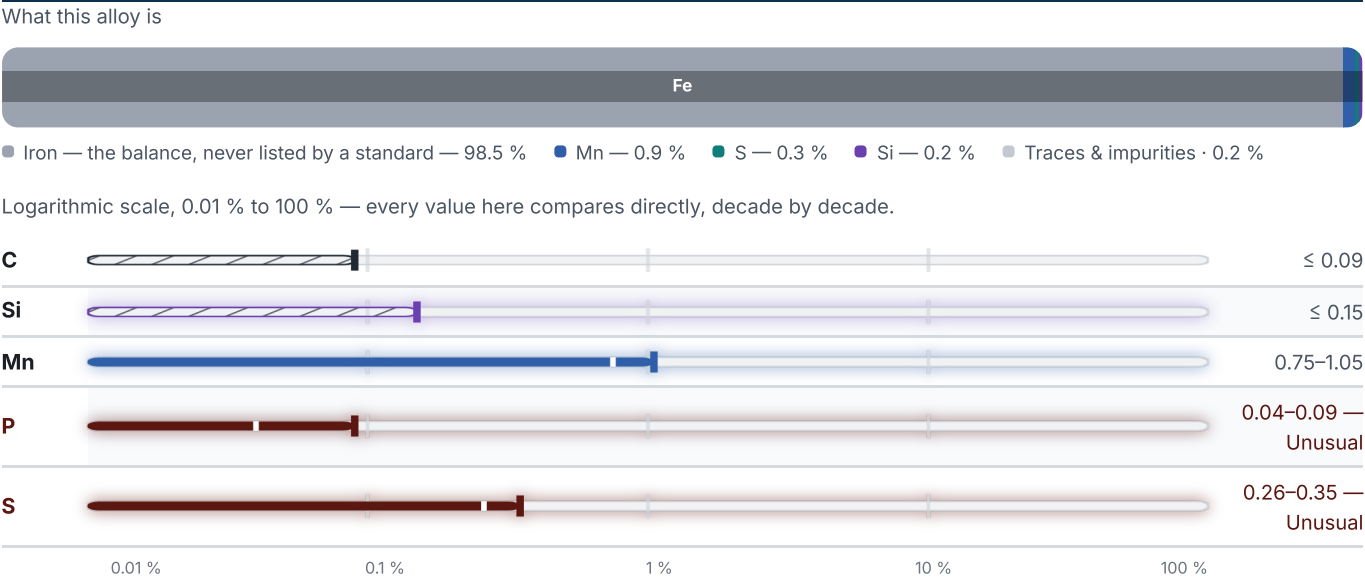
also listed as 1215

Chemical composition, mechanical and physical property values, and 5 standard designations from 4 regions.

OTHER DESIGNATIONS	PROPERTY VALUES
5 in 4 regions	5 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

12 values across 2 conditions

CONDITION · DIMENSION	RM N/mm ²	A %	HB
8 – 20	480–810	≥ 7	140–217

CONDITION · DIMENSION	RM N/mm ²	A %	HB
20 – 30	460–710	≥ 7	140–217
≥ 30	360–710	≥ 7	140–217

CONDITION · DIMENSION	RM N/mm ²	A %	HB
20 – 20	360–570	≥ 25	≤ 163

Designations across standards

5 designations · 1 documented as identical

Japan	2	International	1
SUM21	jis	9S20	iso
SUM23	jis		
		China	1
United States	1	Y08 This grade's own name	gb
1215	aisi-sae		

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 Y08

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 13, 2026