

MATERIAL NUMBER 1.7321 · CLASS 1.7

1.7321

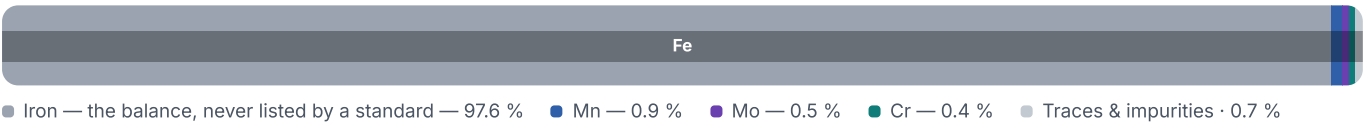
Chemical composition, mechanical and physical property values, and 9 standard designations from 4 regions.

DENSITY 7.76 g/cm³	OTHER DESIGNATIONS 9 in 4 regions	PROPERTY VALUES 8 on file
-----------------------	--------------------------------------	------------------------------

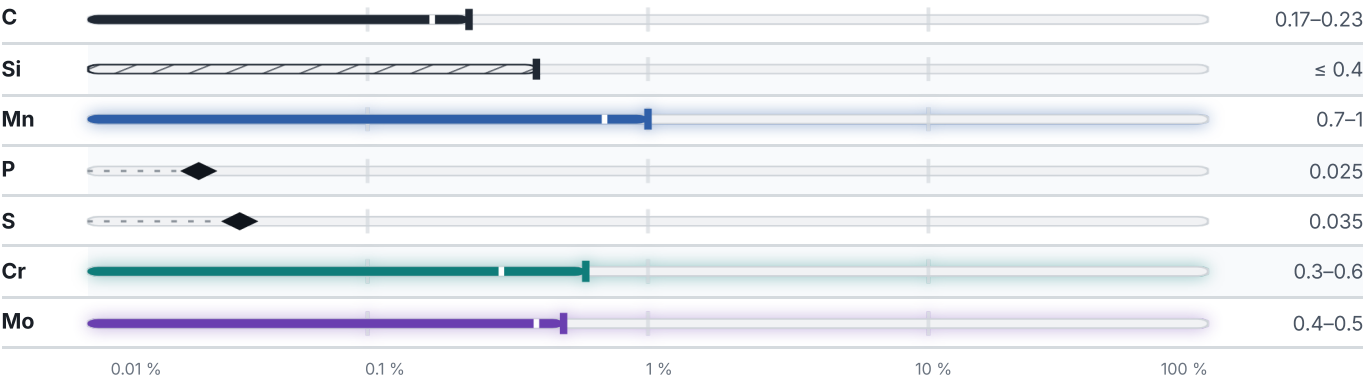
Chemical composition

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.

Mechanical properties

4 values across 4 conditions

TREATED TO IMPROVE SHEARABILITY	HB
Treated to improve shearability	255

SOFT ANNEALED	HB
Soft annealed	207
TREATED TO HARDNESS RANGE	HB
Treated to hardness range	156–207
TREATED TO FERRITE-PEARLITE STRUCTURE AND HARDNESS RANGE	HB
Treated to ferrite-pearlite structure and hardness range	140–187

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.76	g/cm ³

Heat treatment

8 regimes

STEP	TEMPERATURE	MEDIUM
Annealing	Temperature not stated	—
Spheroidize annealing	Temperature not stated	—
source joins the operations with + / procedural order		
Spheroidize annealing	Temperature not stated	—
Spheroidize annealing	Temperature not stated	—
Spheroidize annealing	Temperature not stated	—
Soft annealing	Temperature not stated	—
Soft annealing	Temperature not stated	—
Quenching and tempering	Temperature not stated	—
Soft annealing	Temperature not stated	—

Designations across standards

9 designations · 7 documented as identical

United States			6	Europe			1
G41180	This grade's own name	uns		20MoCr4	This grade's own name	din-en	
H41180	This grade's own name	uns		Spain			1
4118	This grade's own name	aisi-sae		20MoCr5			une
4118H	This grade's own name	aisi-sae		Serbia			1
4118RH	This grade's own name	aisi-sae		Č.7420			srps
EX4	This grade's own name	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 1.7321
Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

DATASHEET ONLINE
View the material page

GRADE SEARCH
Search all grades

MATERIAL NO.
1.7321

ISSUED
Aug 20, 2026