

MATERIAL NUMBER 1.8881 · CLASS 1.8

1.8881

Chemical composition, mechanical and physical property values, and 10 standard designations from 2 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 10 in 2 regions	PROPERTY VALUES 16 on file
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Chemical composition

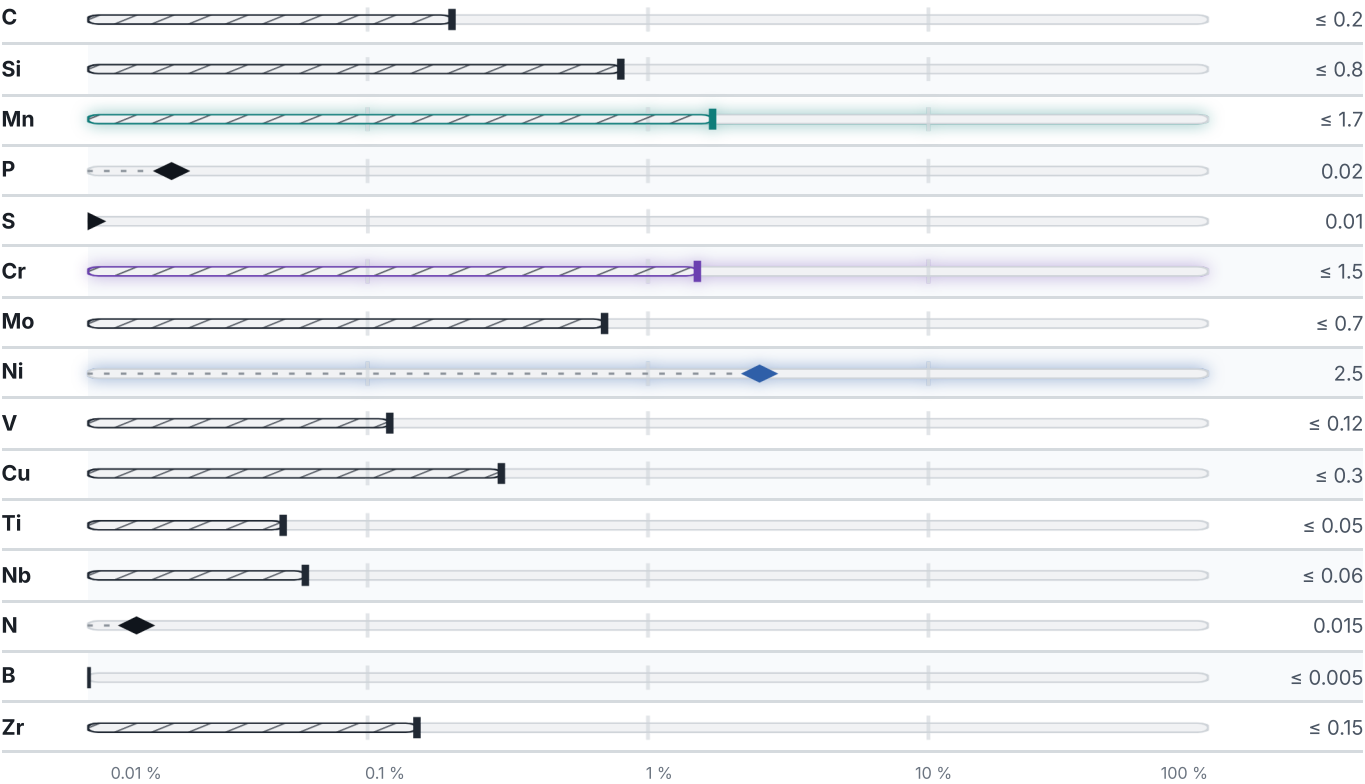
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 91.9 % ● Ni — 2.5 % ● Mn — 1.7 % ● Cr — 1.5 % ● Traces & impurities · 2.4 %

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

This grade's composition falls outside the published model's validated range (a low-alloy composition window), so no transformation temperature is predicted here.

Mechanical properties

5 values across 1 conditions

QUENCHED AND TEMPERED	REH N/mm ²	RM N/mm ²
≤ 50	690	–
50 – 100	670	–
≤ 100	–	770–940
100 – 150	630	720–900

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

10 designations · 1 documented as identical

United States		9	Europe		1
K11511	uns		P690QL1	This grade's own name	din-en
K11576	uns				
K11625	uns				
K11630	uns				
K11646	uns				
K11683	uns				
K11856	uns				
K21604	uns				
K21650	uns				

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 1.8881

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	1.8881	Aug 20, 2026