

MATERIAL NUMBER 1.1157 · CLASS 1.1

040

Material no. 1.1157

also listed as 40Mn4

Chemical composition, mechanical and physical property values, and 15 standard designations from 8 regions.

DENSITY

7.85 g/cm³

OTHER DESIGNATIONS

15 in 8 regions

PROPERTY VALUES

6 on file

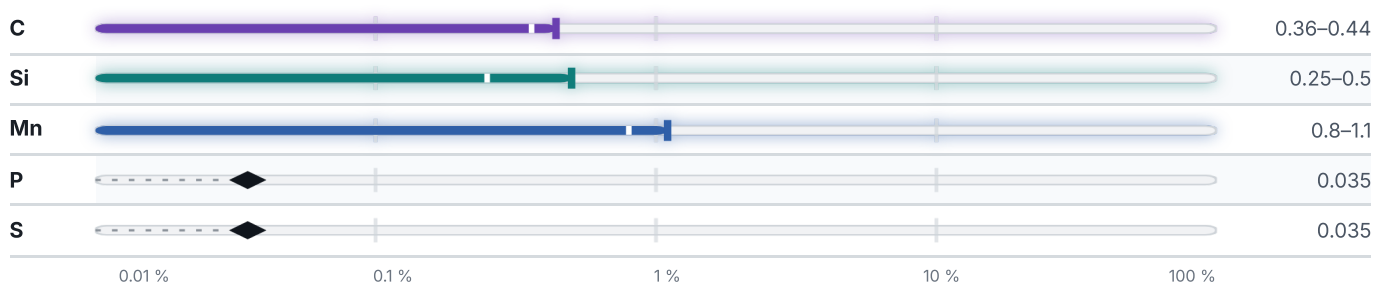
Chemical composition

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, Cr, Mo.

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Heat treatment

3 regimes

STEP	TEMPERATURE	MEDIUM
source joins the operations with + / procedural order		
Annealing	Temperature not stated	—
Annealing	Temperature not stated	—
Tempering	Temperature not stated	—
Normalizing	Temperature not stated	—
Tempering	Temperature not stated	—
source joins the operations with + / procedural order		
Normalizing	Temperature not stated	—
Quenching	Temperature not stated	—
Tempering	Temperature not stated	—
source joins the operations with + / procedural order		
Normalizing	Temperature not stated	—
Quenching	Temperature not stated	—
Tempering	Temperature not stated	—

Designations across standards

15 designations · 3 documented as identical

United States		4	France		2
G10390	This grade's own name	uns	35M5		afnor
1039	This grade's own name	aisi-sae	40M5		afnor
040		astm	Japan		1
361		astm	S40C		jis
United Kingdom		3	China		1
080A40		bs	40Mn		gb
150M36		bs	Russia / CIS		1
EN15		bs	40Г		gost
Europe		2	Sweden		1
1.1157		din-en	40Mn		ss
40Mn4	This grade's own name	din-en			

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 040

Quotation, availability, mill certificate or a technical question — directly on the material page.

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ISSUED

Aug 20, 2026