

MATERIAL NUMBER 1.7711 · CLASS 1.7

A193 gr. B16

Material no. 1.7711

also listed as 40CrMoV4-6

Chemical composition, mechanical and physical property values, and 8 standard designations from 3 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm ³	8 in 3 regions	10 on file

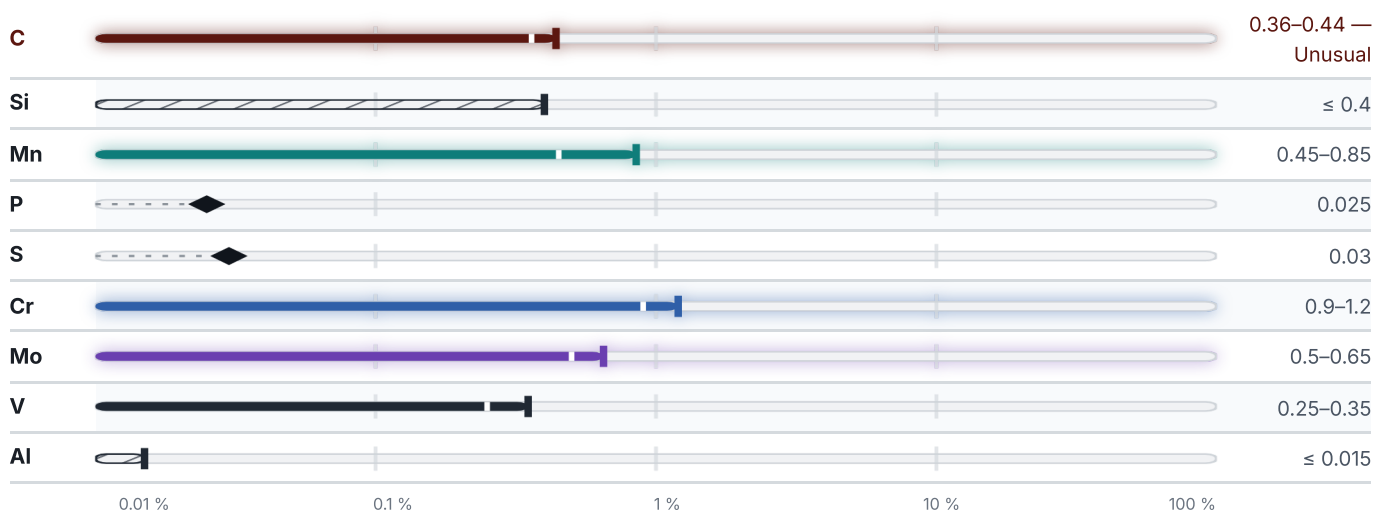
Chemical composition

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		1 values across 1 conditions
SOFT ANNEALED		HB
Soft annealed		241

Physical properties			1 values
PROPERTY	VALUE	UNIT	
Density	7.85	g/cm³	

Designations across standards			8 designations · 3 documented as identical		
United States		5	Europe		2
K14072	This grade's own name	uns	40CrMoV4-6	This grade's own name	din-en
A193 gr. B16		astm	40CrMoV4-7	This grade's own name	din-en
A194 gr. 16		astm			
SA193		astm	France		1
SA194		astm	42CDV4		afnor

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 A193 gr. B16

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	1.7711	Aug 20, 2026