

MATERIAL NUMBER 1.7243 · CLASS 1.7

SCM418H

Material no. 1.7243

also listed as 18CrMo4

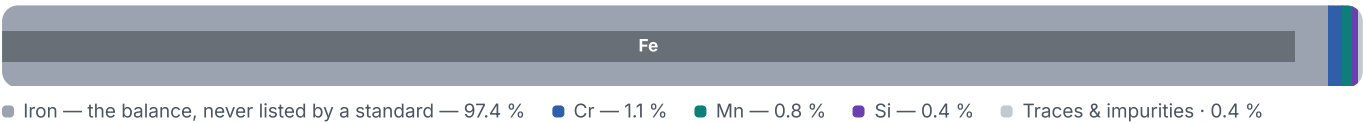
Chemical composition, mechanical and physical property values, and 23 standard designations from 13 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 23 in 13 regions	PROPERTY VALUES 8 on file
--	---	-------------------------------------

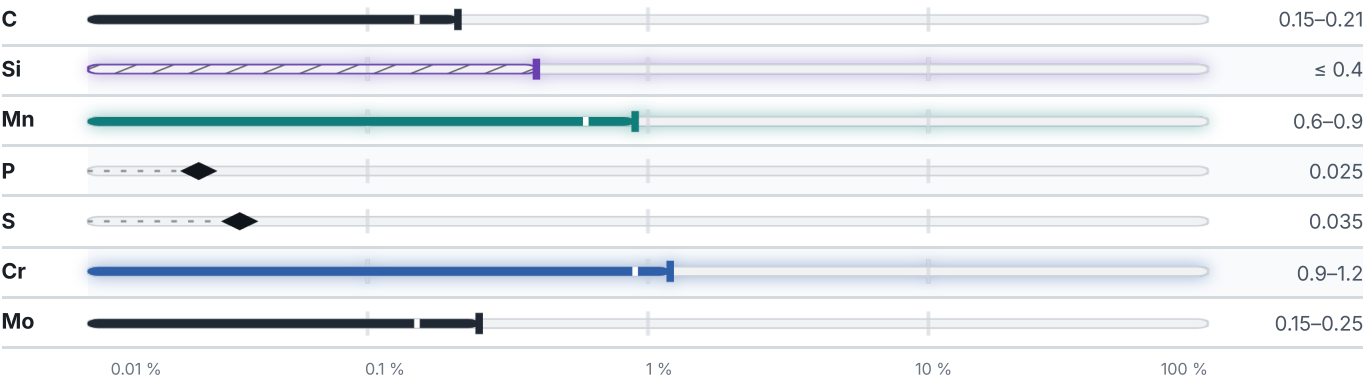
Chemical composition

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

12 values across 7 conditions

QUENCHING AND DRAWING	RM N/mm ²	RE N/mm ²	A5 %	Z %	KCU kJ/m ²
Ø 15	780	590	12	50	880
QUENCHED AND TEMPERED			RM N/mm ²		A %
≤ 160			485–660		20
CONDITION · DIMENSION					HB
(annealing) , GOST 4543-71					179
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
CONDITION · DIMENSION					RM N/mm ²
200					1100

Physical properties

1 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Designations across standards

23 designations · 1 documented as identical

Spain	4	United Kingdom	2
18CrMo4	une	708H20	bs
A-1550	une	708M20	bs
CMO	une	France	2
F-1550	une	18CD4	afnor
International	3	18CrMo4	afnor
15CrMo4	iso	Japan	2
18CrMo4	iso	SCM418	jis
18CrMoS4	iso	SCM418H	jis

Poland	2	Italy	1
15HGM	pn	18CrMo4	uni
18HGM	pn		
Hungary	2	Czechia	1
~BCMo 1	msz	15124	csn
BCMo 2	msz	Slovakia	1
		15 124	stn
Europe	1	Romania	1
18CrMo4	This grade's own name din-en	21MoMnCr12	stas
Russia / CIS	1		
20KHM	gost		

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 SCM418H

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	1.7243	Aug 20, 2026