

MATERIAL NUMBER 1.0601 · CLASS 1.0

60KHSMF

Material no. 1.0601

also listed as C60

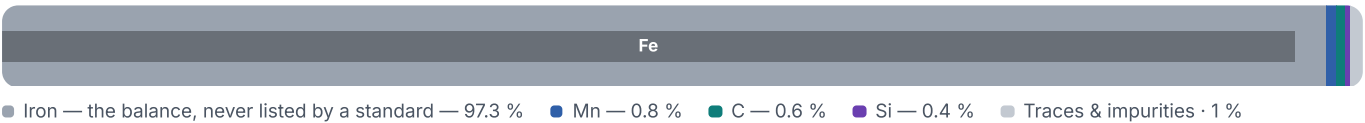
Chemical composition, mechanical and physical property values, and 92 standard designations from 25 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 92 in 25 regions	PROPERTY VALUES 16 on file
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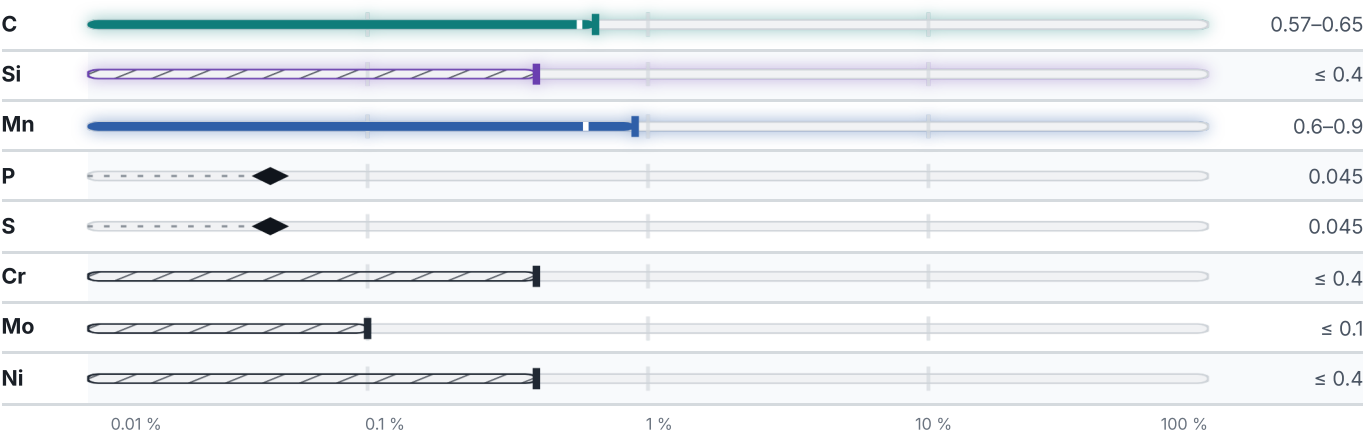
Chemical composition

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

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

28 values across 7 conditions

CONDITION · DIMENSION	RM N/mm ²	A5 %	HB	
Band cold-worked , GOST 2283-79	740–1180	–	–	
Band annealed , GOST 2283-79	640–740	10–15	–	
(without heat treatment) , GOST 14959	–	–	285	
(heat treatment) , Rolled stock GOST 14959-79	–	–	241	
(normalize) , Sheet trick GOST 1577-93	–	–	269	
(annealing) , Sheet trick GOST 1577-93	–	–	229	
NORMALIZED	RM N/mm ²	A %		
≤ 16	710	10		
16 – 100	670	11		
100 – 250	650	11		
250 – 500	630	–		
500 – 1000	620	–		
COLD DRAWN / HARD	RM N/mm ²	A %		
5 – 10	800–1150	5		
10 – 16	780–1130	5		
16 – 40	730–1100	6		
CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %
Rolled stock, GOST 14959-79	980	785	8	30
TREATED TO IMPROVE SHEARABILITY				HB
Treated to improve shearability				255
SOFT ANNEALED				HB
Soft annealed				241
AS ROLLED AND TURNED				HB
As rolled and turned				198–278

Physical properties

8 values

CONDITION · DIMENSION	RHO g/cm³	E GPa	ALPHA 10 ⁻⁶ /K	CP J/(kg·K)
20	7.81	204	–	–
100	–	–	11.6	483
200	–	–	11.9	487
300	–	–	12.9	–
400	–	–	13.8	529
600	–	–	14.6	575
PROPERTY			VALUE	UNIT
Density			7.85	g/cm³
Transformation point Ac1			726	°C
Transformation point Ac3			765	°C
Transformation point Ar3			741	°C
Transformation point Ar1			689	°C

Technological properties

PROPERTY	VALUE	UNIT
Weldability	is not used.	
Flake sensitivity	weakly predisposed	
Temper brittleness	predisposed	

Designations across standards

92 designations · 3 documented as identical

United Kingdom		14	United States		13
060A2	bs		G10550		uns
060A62	bs		G10600	This grade's own name	uns
070M60	bs		1050		aisi-sae
080A62	bs		1055		aisi-sae
080A62-EN	bs		1059		aisi-sae
1449-CS	bs		1060	This grade's own name	aisi-sae
1449-HS	bs		1064		aisi-sae
43D	bs		1561		aisi-sae
60CS	bs		C1060		aisi-sae
60HS	bs		G10590		aisi-sae
C60	bs		G10600		aisi-sae
C60E	bs		G10640		aisi-sae
CS60	bs		G15610		aisi-sae
EN43D	bs				

France	12
1C60	afnor
2C60	afnor
AF70	afnor
AF70C55	afnor
C60	afnor
C60E	afnor
C60RR	afnor
CC55	afnor
CC60	afnor
XC55	afnor
XC60	afnor
XC65	afnor
Russia / CIS	11
60	gost
60 60Г	gost
60G	gost
60KhFA	gost
60KHG	gost
60KhGL	gost
60KHN	gost
60KHSMF	gost
T60	gost
сТ.60	gost
сТ.60Г	gost
Poland	5
55	pn
60	pn
60G	pn
60rs	pn
D55	pn
Japan	4
S58C	jis
S60C-CSP	jis
S65C-CSP	jis
SWR-7	jis
Italy	4
1C60	uni
C60	uni
C60E	uni
C60R	uni

Bulgaria	4
60	bds
60G	bds
C60	bds
C60E	bds
Spain	3
C60	une
C60E	une
F.115	une
Romania	3
OLC60	stas
OLC60AT	stas
OLC60X	stas
Europe	2
1.0601	din-en
C60 This grade's own name	din-en
Sweden	2
1665	ss
1678	ss
Belgium	2
C60-1	nbn
C60-2	nbn
Switzerland	2
C60	snv
Ck60	snv
International	1
C60	iso
China	1
60	gb
Czechia	1
12061	csn
Latin America	1
1060	copant
Slovakia	1
12 061	stn
Serbia	1
Č.1730	srps

Croatia	1	Austria	1
Č.1730	hrn	BOHLERV960	onorm
Hungary	1	South Korea	1
C60E	msz	SM58C	ks
Australia / New Zealand	1		
1060	as-nzs		

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 60KHSMF

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	1.0601	Sep 8, 2026