SteelEquivalents.com

Material datasheet
As of Sep 8, 2026

MATERIAL NUMBER 1.0601 · CLASS 1.0

F.115

Material no. 1.0601

also listed as C60

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

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	92 in 25 regions	16 on file

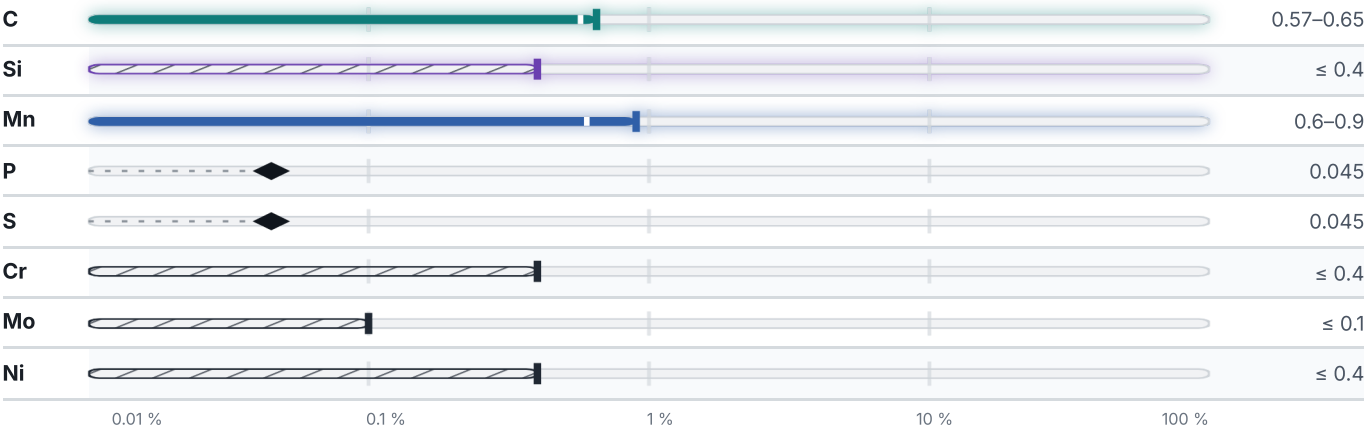
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 97.3 % · Mn — 0.8 % · C — 0.6 % · Si — 0.4 % · Traces & impurities · 1 %

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/mm²	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/mm²	A %
≤ 16	710	10
16 – 100	670	11
100 – 250	650	11
250 – 500	630	–
500 – 1000	620	–

COLD DRAWN / HARD	RM N/mm²	A %
5 – 10	800–1150	5
10 – 16	780–1130	5
16 – 40	730–1100	6

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	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
060A2	bs
060A62	bs
070M60	bs
080A62	bs
080A62-EN	bs
1449-CS	bs
1449-HS	bs
43D	bs
60CS	bs
60HS	bs
C60	bs
C60E	bs
CS60	bs
EN43D	bs

United States	13
G10550	uns
G10600 This grade's own name	uns
1050	aisi-sae
1055	aisi-sae
1059	aisi-sae
1060 This grade's own name	aisi-sae
1064	aisi-sae
1561	aisi-sae
C1060	aisi-sae
G10590	aisi-sae
G10600	aisi-sae
G10640	aisi-sae
G15610	aisi-sae

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
Č.1730	hrn

Austria	1
BOHLERV960	onorm

Hungary	1
C60E	msz

South Korea	1
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 F.115

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