

MATERIAL NUMBER 1.0614 · CLASS 1.0

C76D

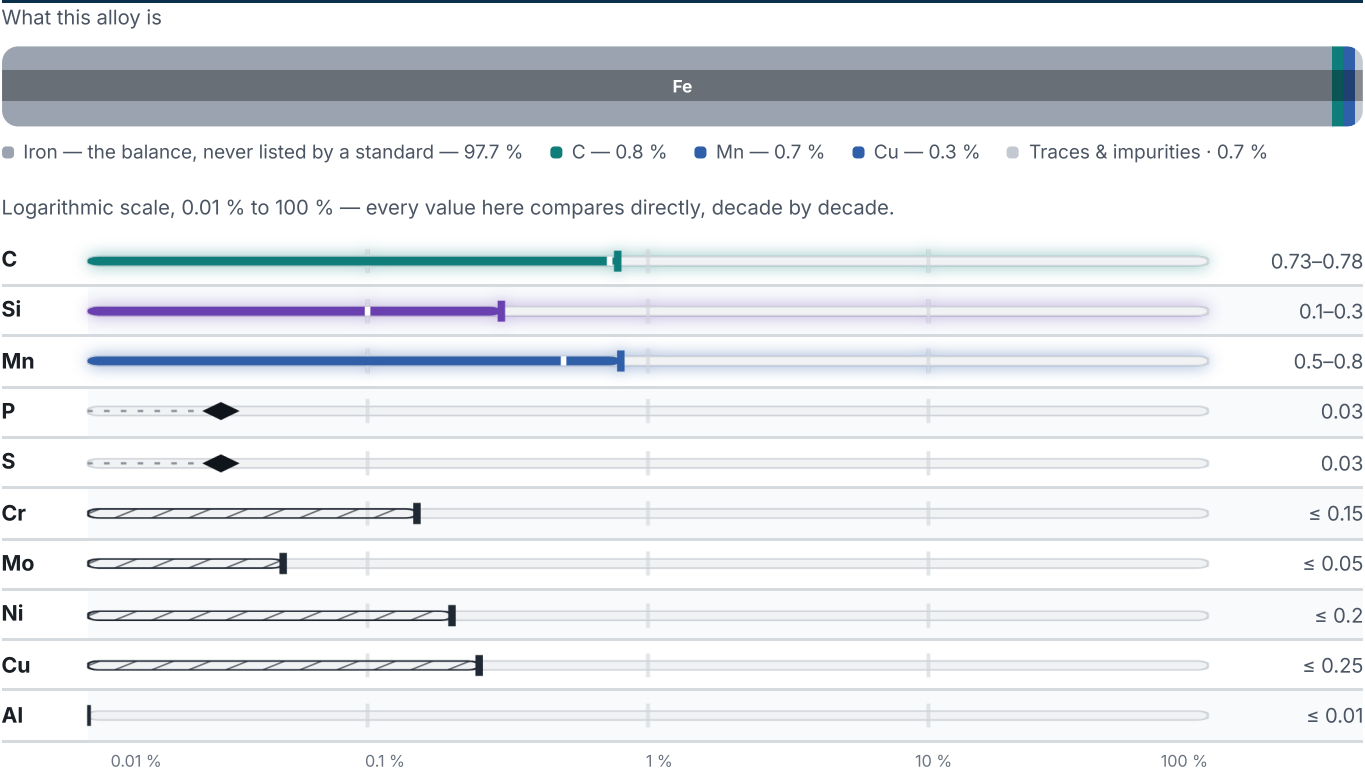
Material no. 1.0614

Chemical composition, mechanical and physical property values, and 8 standard designations from 5 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 8 in 5 regions	PROPERTY VALUES 17 on file
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Chemical composition

Mass fraction in %



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

6 values across 2 conditions

CONDITION · DIMENSION				HB
(without heat treatment) , Rolled stock GOST 14959-79				285
(heat treatment) , Rolled stock GOST 14959-79				241
CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %
Rolled stock, GOST 14959-79	1080	885	9	30

Physical properties

7 values

CONDITION · DIMENSION			E GPa
20			191
PROPERTY		VALUE	UNIT
Density		7.85	g/cm ³
Transformation point Ac1		720	°C
Transformation point Ac3		735	°C
Transformation point Ar1		700	°C

Technological properties

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

Designations across standards

8 designations · 5 documented as identical

United States		4	China		1
G10740	This grade's own name	uns	75		gb
G10750	This grade's own name	uns	Russia / CIS		1
1074	This grade's own name	aisi-sae	75		gost
1075	This grade's own name	aisi-sae	Bulgaria		1
Europe		1	75		bds
C76D	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 C76D
Quotation, availability, mill certificate or a technical question — directly on the material page.

Start an enquiry

DATASHEET ONLINE
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GRADE SEARCH
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ISSUED
Aug 20, 2026