

MATERIAL NUMBER 1.1132 · CLASS 1.1

1.1132

Chemical composition, mechanical and physical property values, and 31 standard designations from 5 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 31 in 5 regions	PROPERTY VALUES 16 on file
--	--	--------------------------------------

Chemical composition

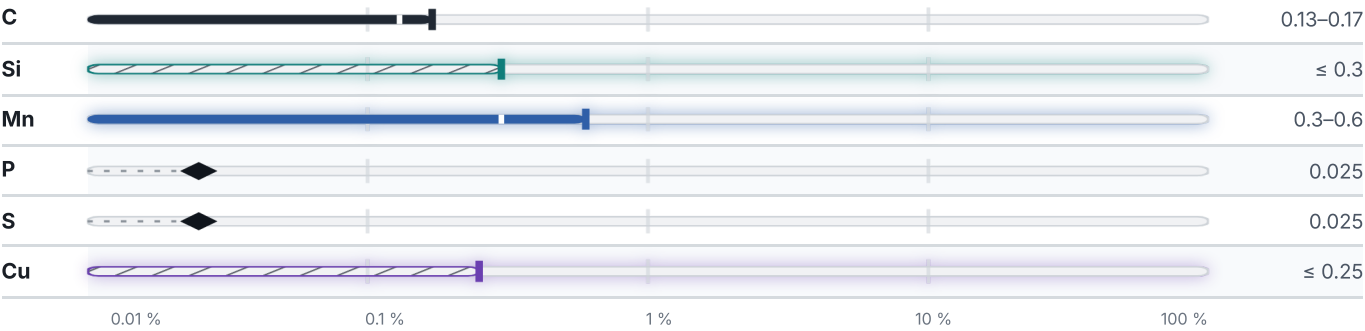
Mass fraction in %

What this alloy is



● Iron — the balance, never listed by a standard — 98.8 % ● Mn — 0.4 % ● Si — 0.3 % ● Cu — 0.3 % ● Traces & impurities · 0.2 %

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, Cr, Mo.

Mechanical properties

22 values across 3 conditions

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	HB
Pipe, GOST 5005-82	510	430	8	—	—

CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %	Z %	HB
Rolled stock cold-worked , GOST 1050-88	440	–	8	45	–
Rolled stock annealed , GOST 1050-88	340	–	23	55	–
Band annealed , GOST 2284-79	310–490	–	20	–	–
Band cold-worked , GOST 2284-79	440–780	–	–	–	–
Sheet GOST 4041-71	–	–	–	–	121
Bar GOST 10702-78	–	–	–	–	125
Rolled stock GOST 1050-88	–	–	–	–	197
Sheet trick GOST 1577-93	–	–	–	–	143
CONDITION · DIMENSION	RM N/mm ²			A5 %	
4 - 14	320–440			30	
NORMALIZING	RM N/mm ²	RE N/mm ²	A5 %	Z %	
to 80	370	225	27	55	

Physical properties

8 values

CONDITION · DIMENSION	RHO g/cm ³	E GPa	ALPHA 10 ^{−6} /K	LAMBDA W/(m·K)	CP J/(kg·K)	RHO_EL nΩ·m
20	7.85	201	–	53	–	–
100	7.827	192	12.4	53	465	233
200	7.794	185	13.2	53	486	296
300	7.759	176	13.9	49	515	387
400	7.724	156	14.4	46	532	487
500	7.687	–	14.8	43	565	607
600	7.648	–	15.1	39	586	753
700	7.611	–	15.3	36	620	904
800	7.599	–	14.1	32	691	1092
900	7.584	–	13.2	30	708	1140
PROPERTY	VALUE		UNIT			
Density	7.85		g/cm ³			
Transformation point Ac1	735		°C			

PROPERTY	VALUE	UNIT
Transformation point Ac3	860	°C
Transformation point Ar3	840	°C
Transformation point Ar1	685	°C

Technological properties

PROPERTY	VALUE	UNIT
Weldability	without limitations.	
Flake sensitivity	not predisposed	
Temper brittleness	not predisposed	

Designations across standards

31 designations · 5 documented as identical

Russia / CIS		23	Europe		3	
15	gost		15kp		din-en	
15G	gost		C15E2C	This grade's own name	din-en	
15GFD	gost		Cq 15	This grade's own name	din-en	
15GL	gost		United States			2
15GNL	gost		G10150	This grade's own name	uns	
15GS	gost		1015	This grade's own name	aisi-sae	
15KHF	gost		Japan			2
15KhFA	gost		S15C		jis	
15KhGNM	gost		S15CK		jis	
15KhL	gost		China			1
15KhMFA	gost		15	This grade's own name	gb	
15KhMFKR	gost					
15KHSND	gost					
15kp	gost					
15ps	gost					
15YuA	gost					
15ГC-Ш	gost					
15XCHД-Ш	gost					
A15Kh	gost					
CHS15	gost					
ShKh15-ShD	gost					
Sv-15GSTYuTsA	gost					
ЭП-439	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 1.1132

Quotation, availability, mill certificate or a technical question — directly on the material page.

[Start an enquiry](#)

DATASHEET ONLINE

[View the material page](#)

GRADE SEARCH

[Search all grades](#)

MATERIAL NO.

1.1132

ISSUED

Aug 20, 2026