SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.0558 · CLASS 1.0

A732(4A)

Material no. 1.0558

also listed as GE 300

Chemical composition, mechanical and physical property values, and 11 standard designations from 5 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	**11** in 5 regions	**4** on file

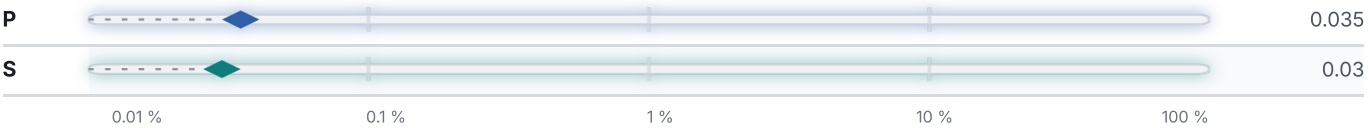
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 99.9 % · P — 0 % · S — 0 %

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: C, Mn, Si, Ni, Cr, Mo.

Mechanical properties

10 values across 2 conditions

NORMALIZING 860 - 880°C,DRAWING 600 - 630°C	RM N/mm²	RE N/mm²	A5 %	Z %	KCU kJ/m²
to 100	569	334	11	20	245

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A5 %	Z %	KCU kJ/m²
Casting, GOST 977-88	736	392	14	20	294

Physical properties

2 values

CONDITION · DIMENSION	RHO g/cm³	E GPa	ALPHA 10^-6/K	LAMBDA W/(m·K)	CP J/(kg·K)	RHO_EL nΩ·m
20	7.82	219	–	48	–	191
100	–	214	12	48	479	240
200	–	208	12.4	46	500	321
300	–	196	12.8	44	517	407
400	–	178	13.3	41	542	509
500	–	170	13.7	38	559	631
600	–	155	14.1	34	584	779
700	–	136	14.5	30	617	941
800	–	122	12.4	25	727	1139
900	–	–	13.3	26	710	1170

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Technological properties

PROPERTY	VALUE	UNIT
Weldability	limited weldability.	

Designations across standards

11 designations · 3 documented as identical

Europe 3

GE 300 This grade's own name	din-en
GS-60 This grade's own name	din-en
GS-60N	din-en

China 3

ZG310-570	gb
ZG340-640	gb
ZGD345-570	gb

United States 2

D50600 This grade's own name	uns
A732(4A)	aisi-sae

Russia / CIS 2

50L	gost
50Л	gost

Japan 1

SCC5	jis

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 A732(4A)
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	1.0558	Aug 20, 2026