

MATERIAL NUMBER 1.0580 · CLASS 1.0

St 52

Material no. 1.0580

also listed as E355

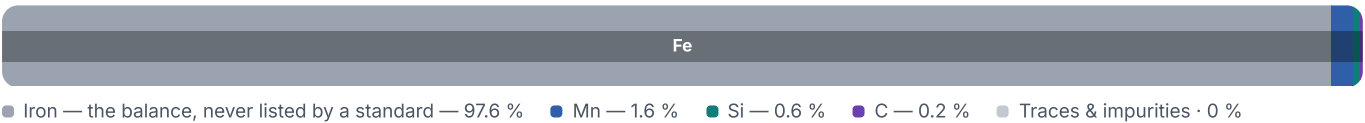
Chemical composition, mechanical and physical property values, and 26 standard designations from 11 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 26 in 11 regions	PROPERTY VALUES 9 on file
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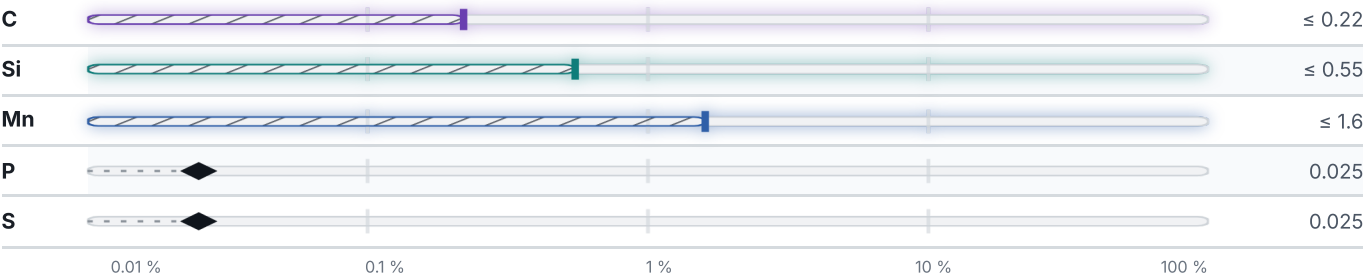
Chemical composition

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

Not enough recorded composition to predict a transformation temperature for this grade — missing: Ni, Cr, Mo.

Mechanical properties

15 values across 2 conditions

AS ROLLED	REH N/mm ²	RM N/mm ²
≤ 16	355	490

AS ROLLED	REH N/mm ²	RM N/mm ²	
16 – 40	345	490	
40 – 65	335	490	
65 – 100	–	470	
65 – 80	315	–	
80 – 100	295	–	
CONDITION · DIMENSION	RM N/mm ²	RE N/mm ²	A5 %
Pipe, GOST 8731-87	588	304	14
Rolled stock, GOST 535-2005	590	295–315	12–15

Physical properties

4 values

CONDITION · DIMENSION			RHO g/cm³
20			7.85
PROPERTY		VALUE	UNIT
Density		7.85	g/cm³

Technological properties

PROPERTY	VALUE	UNIT
Weldability	limited weldability.	
Flake sensitivity	not predisposed	
Temper brittleness	not predisposed	

Designations across standards

26 designations · 5 documented as identical

Europe	5	France	4
1.0060	din-en	E335	afnor
E355	din-en	ES355	afnor
S355GT	din-en	TS-47a	afnor
St 52	din-en	TU526	afnor
St 52-3	din-en		
		Czechia	3
United Kingdom	5	11 523	csn
CEW5	bs	11483	csn
CFS5	bs	11600	csn
E335	bs		
ERW5NKM	bs		
ERW5NZF	bs		

United States		2	Russia / CIS		1
1024	This grade's own name	aisi-sae	St6sp		gost
Gr.65		aisi-sae			
Italy		2	Sweden		1
E335		uni	1650		ss
Fe510		uni	Poland		1
International		1	MSt6		pn
Fe590		iso	Austria		1
			St60F		onorm

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 St 52

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	1.0580	Aug 20, 2026