

MATERIAL NUMBER 1.0345 · CLASS 1.0

A53-A

Material no. 1.0345

also listed as HI

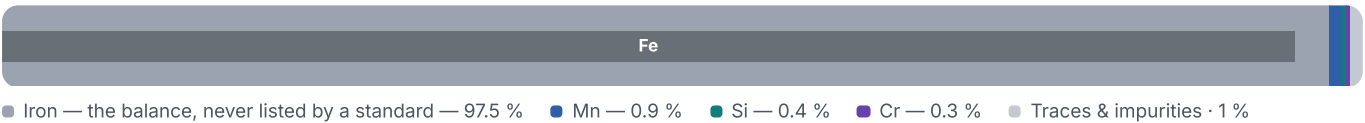
Chemical composition, mechanical and physical property values, and 62 standard designations from 17 regions.

DENSITY 7.85 g/cm ³	OTHER DESIGNATIONS 62 in 17 regions	PROPERTY VALUES 16 on file
--	---	--------------------------------------

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

computed from composition · °C

PREDICTED AE3 819 °C	PREDICTED AE1 717 °C	PREDICTED ACM 399 °C	PREDICTED BS 568 °C
-------------------------	-------------------------	-------------------------	------------------------

Mechanical properties

12 values across 1 conditions

AS-DELIVERED STATE	RM N/mm ²	RE N/mm ²	A5 %	KCU kJ/m ²
to 20	350–440	225	24	780
21 - 40	350–440	215	24	780
41 - 60	350–440	205	24	780

Physical properties

2 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm ³

Technological properties

PROPERTY	VALUE	UNIT
Weldability	without limitations.	

Designations across standards

62 designations · 11 documented as identical

United States		20	France		4
K01501	This grade's own name	uns	A37AP		afnor
K01700	This grade's own name	uns	A37CP		afnor
K02001		uns	AP		afnor
K02200	This grade's own name	uns	P235GH		afnor
K02201	This grade's own name	uns	Spain3		
K02202	This grade's own name	uns			
K02203	This grade's own name	uns	A 37 RC I		une
K02503	This grade's own name	uns	A37RCI		une
K02601		uns	RA II		une
K02801	This grade's own name	uns	Italy3		
-55		aisi-sae			
55 A515 Gr.65		aisi-sae	Fe360-1KG		uni
A285		aisi-sae	Fe360-1KW		uni
A285Gr.C		aisi-sae	FeE235		uni
A516		aisi-sae	Czechia3		
A516Gr.65		aisi-sae			
Gr.55		aisi-sae	11364		csn
Gr.65		aisi-sae	11366		csn
Gr.A		aisi-sae	11368		csn
A53-A	This grade's own name	astm	Russia / CIS2		
Europe		6	12k		gost
1.0345		din-en	12K		gost
A285Gr.C		din-en	Sweden2		
ASt35		din-en			
HI	This grade's own name	din-en	1330		ss
P235GH	This grade's own name	din-en	1330-01		ss
StE255		din-en	Belgium2		
United Kingdom		6	D37-1.2		nbn
141-360		bs	E37-1.2		nbn
1501		bs	International1		
1501 Gr. 161-360		bs			
161-360		bs	P3		iso
161Gr.360		bs	China1		
400		bs	20		gb
Japan		5	Slovakia1		
SB410		jis			
SGV410		jis	11 368		stn
SPV235		jis	Poland1		
SPV24		jis			
SPV450		jis	St36K		pn
			Austria1		
			St35KW		onorm

Finland	1
Fe37BP	sfs

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 A53-A

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	1.0345	Aug 20, 2026