SteelEquivalents.com

Material datasheet
As of Aug 20, 2026

MATERIAL NUMBER 1.0338 · CLASS 1.0

FeP04

Material no. 1.0338

also listed as DC 04

Chemical composition, mechanical and physical property values, and 69 standard designations from 18 regions.

DENSITY	OTHER DESIGNATIONS	PROPERTY VALUES
7.85 g/cm³	69 in 18 regions	8 on file

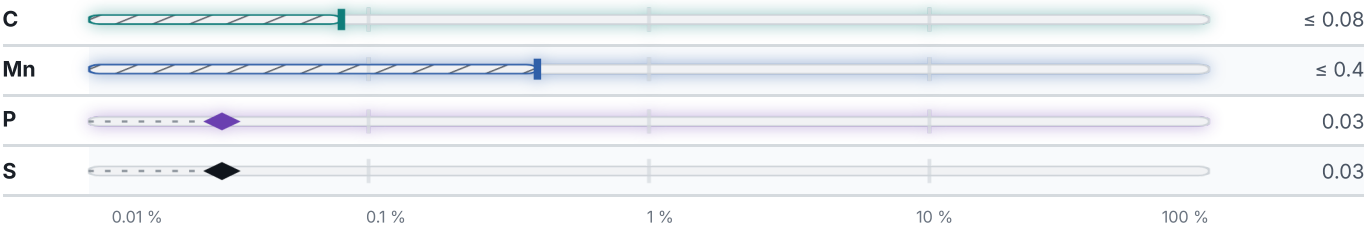
Chemical composition

Mass fraction in %

What this alloy is

Iron — the balance, never listed by a standard — 99.5 % · Mn — 0.4 % · C — 0.1 % · P — 0 % · Traces & impurities · 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: Si, Ni, Cr, Mo.

Mechanical properties

21 values across 5 conditions

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A %
0.3 – 0.5	270–370	≤ 240	≥ 30

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A %
0.5 – 0.7	270–370	≤ 240	≥ 32
≥ 0.7	270–370	≤ 240	≥ 34

CONDITION · DIMENSION	RM N/mm²	RE N/mm²	A5 %	HB
Pipe, GOST 10705-80	255	174	30	–
Sheet GOST 4041-71	–	–	–	118
(annealing) , Strip GOST 1577-93	–	–	–	131

SOFT ANNEALED	HV
Soft annealed	100

CONDITION · DIMENSION	RM N/mm²	A5 %
4 - 8	360	36

NORMALIZING	RM N/mm²	RE N/mm²	A5 %	Z %
6 - 60	290	175	35	60

Physical properties

4 values

PROPERTY	VALUE	UNIT
Density	7.85	g/cm³

Technological properties

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

Heat treatment

1 regimes

STEP	TEMPERATURE	MEDIUM
Annealing	Temperature not stated	—

Designations across standards

69 designations · 5 documented as identical

United Kingdom 15

1449	bs
1449-12CR	bs
1449-1CR	bs
1449-3CR	bs
1CR	bs
1CS	bs
1HR	bs
1HS	bs
2CR	bs
2HR	bs
3HR	bs
CR1	bs
DC03	bs
DC04	bs
FeP01	bs

Europe 7

1.0338	din-en
DC 04 This grade's own name	din-en
DDS	din-en
FeP04	din-en
RRSt14	din-en
St 14 This grade's own name	din-en
St 4 This grade's own name	din-en

United States 5

A619	aisi-sae
A620	aisi-sae
DDS	aisi-sae
K00040	aisi-sae
A620	astm

France 5

3C	afnor
DC03	afnor
DC04	afnor
ES	afnor
FeP01	afnor

Italy 5

DC01	uni
DC03	uni
DC04	uni
FeP02	uni
FeP04	uni

Australia / New Zealand 5

CA2	as-nzs
CA3	as-nzs
CA4	as-nzs
HA3	as-nzs
HA4N	as-nzs

Russia / CIS 4

05kp	gost
08kp	gost
08YU	gost
08Ю	gost

Spain 3

AP04	une
DC03	une
DC04	une

Japan 3

CR4	jis
SPCC	jis
SPCE	jis

Czechia 3

11305	csn
11321	csn
11325	csn

International 2

Cr04	iso
CR24	iso

China 2

DC03 This grade's own name	gb
DC04 This grade's own name	gb

Sweden 2

1142	ss
1147	ss

Poland 2

08J	pn
08JA	pn

Austria 2

St02F	onorm
St04F	onorm

Finland	2
RACOLD03F	sfs
RACOLD04F	sfs

Slovakia	1
11 305	stn

Romania	1
A3k	stas

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.

DATASHEET ONLINE	GRADE SEARCH	MATERIAL NO.	ISSUED
View the material page	Search all grades	1.0338	Aug 20, 2026