

Database of Steel and Alloy (Marochnik)

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Characteristics for grade SCH30 (C430).

Grade :	SCH30 (C430)
Classification :	Grey cast iron
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Chemical composition in % for grade SCH30 (C430)

C	Si	Mn	S	P
3 - 3.2	1.3 - 1.9	0.7 - 1	max 0.12	max 0.2

Mechanical properties under T=20°C for grade SCH30 (C430)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Casting, GOST 1412-85			300					

Brinell hardness for SCH30 (C430), GOST 1412-85

HB 10 ¹ = 163 - 270 MPa

Technological properties of the material SCH30 (C430).

Linear shrinkage :	1.3 %
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Physical properties for grade SCH30 (C430)

T	E 10 ⁻⁵	α 10 ⁶	λ	ρ	C	R 10 ⁹
Grade	MPa	1/Grade	Watt/(m·Grade)	kg/m ³	J/(kg·Grade)	Ohm·m
20	1.3		46	7300		
100		10.5			525	

Equivalent steels for grade SCH30 (C430)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	European	Italy	Belgium	Spain	China	Sweden	Bulgaria	Hungary	Poland	Romania	Czechia	Austria	Australia	Inter	India	Holland	Taiwan	Luxembol
-	DIN,WNr	JIS	AFNOR	BS	EN	UNI	NBN	UNE	GB	SS	BDS	MSZ	PN	STAS	CSN	ONORM	AS	ISO	IS	NEN	-	-
No.45	GG30	FC300	FGL300 Fl30	300	EN-GJL-300 EN-JL1050	G30	FGG30	FG30	HT300	O130-00 O130	Vch30	OV30	Z130 Z1300	FC300	422430	GG30 GG300	T300	300	FG300	GG30	FC300	FGG30

Specification :

Mechanical properties :

- σ_B - Tensile strength, [MPa]
- σ_T - Yield stress, [MPa]
- δ_5 - Specific elongation at fracture, [%]
- ψ - Reduction of area, [%]
- KCU - Impact strength, [kJ / m²]
- HB - Brinell hardness, [MPa]

Physical properties :

- T - Test temperature, [Grade]
- E - Young modulus, [MPa]
- α - Coefficient of linear expansion (range 20° - T), [1/Grade]
- λ - Thermal (heat) condition coefficient, [Watt/(m·Grade)]
- ρ - Density, [kg/m³]
- C - Specific heat (range 20° - T), [J/(kg·Grade)]
- R - Electrical resistance, [Ohm·m]

Database of steels and alloys (Marochnik) contains information about chemical composition and properties more than 2500 steels and alloys (stainless steel, alloy steel, carbone steel, structural steel, tool steel, cast iron, aluminum alloy, titanium alloy, copper alloy, nickel alloy, magnesium alloy and others).
Helpfull for specialists in grade technology, structural engineer, mechanical engineer, metallurgy and metal trader

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