

Database of Steel and Alloy (Marochnik)

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Characteristics for grade VCH70 (B470).

Grade :	VCH70 (B470)
Classification :	Cast iron with spheroidal graphite
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Chemical composition in % for grade VCH70 (B470)

C	Si	Mn	Ni	S	P	Cr	Cu
3 - 3.6	2.6 - 2.9	0.4 - 0.7	max 0.6	max 0.015	max 0.1	max 0.15	max 0.4

Mechanical properties under T=20°C for grade VCH70 (B470)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Casting, GOST 7293-85			700	420	2			

Brinell hardness for VCH70 (B470) , GOST 7293-85

HB 10 ¹ = 228 - 302 MPa

Equivalent steels for grade VCH70 (B470)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	European	Italy	Belgium	Spain	China	Sweden	Bulgaria	Hungary	Poland	Romania	Czechia	Finland	Austria	Australia	Inter	India	Hollar
-	DIN,VN	JIS	AFNOR	BS	EN	UNI	NBN	UNE	GB	SS	BDS	MSZ	PN	STAS	CSN	SFS	ONORM	AS	ISO	IS	NEN
100-70-03	GGG70	FCD700	FGS700-2	700/2	EN-GJS-700-2 EN-JS1070 GJS-700-2	GS700-2	FNG70-2	FGE70-2	QT700-2	0737-01	700-2	GoV70	Zs70002 ZS7002	FGN70-3	422307	GRP700	GGG700 SG70	700-2	700-2	SG700/2	GN70

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 / m ²]
HB	- Brinell hardness , [MPa]

Database of steels and alloys (Marochnik) contains information about chemical composition and properties more then 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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