

Database of Steel and Alloy (Marochnik)

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Characteristics for grade VCH80 (B480).

Grade :	VCH80 (B480)
Classification :	Cast iron with spheroidal graphite
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Chemical composition in % for grade VCH80 (B480)

C	Si	Mn	Ni	S	P	Cr	Cu
3.2 - 3.6	2.6 - 2.9	0.4 - 0.7	max 0.6	max 0.01	max 0.1	max 0.15	max 0.6

Mechanical properties under T=20°C for grade VCH80 (B480)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Casting, GOST 7293-85			800	480	2			

Brinell hardness for VCH80 (B480) , GOST 7293-85	HB 10 ⁻¹ = 248 - 351 MPa
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Equivalent steels for grade VCH80 (B480)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	European	Italy	Belgium	Spain	China	Sweden	Bulgaria	Poland	Czechia	Finland	Australia	Inter	India	Luxembourg
-	DIN, WNr	JIS	AFNOR	BS	EN	UNI	NBN	UNE	GB	SS	BDS	PN	CSN	SFS	AS	ISO	IS	-
120-90-02	GGG80	FCD80 FCD800	FGS800-2	800/2	EN-GJS-800-2 EN-JS1080	GS800-2	FNG80-2	FGE80-2	QT800-2	0864-03	800-2	Zs80002 ZS8002	422308	GRP800	800-2	800-2	SG800/2	FNG80-2

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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