

Database of Steel and Alloy (Marochnik)

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[Home](#) [European steel grades](#) [Steel and Alloy](#) [Search](#) [Equivalent grades](#) [Grading](#) [GOST Standard](#) [Contacts](#)

YOU HERE: [Steel and Alloy](#) -> [Cast iron](#)

Characteristics for grade VCH100 (B4100).

Grade :	VCH100 (B4100)
Classification :	Cast iron with spheroidal graphite
Equivalent grades:	Go here

Chemical composition in % for grade VCH100 (B4100)

C	Si	Mn	Ni	S	P	Cr	Cu
3.2 - 3.6	3 - 3.8	0.4 - 0.7	max 0.8	max 0.01	max 0.1	max 0.15	max 0.6

Mechanical properties under T=20°C for grade VCH100 (B4100)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Casting, GOST 7293-85			1000	700	2			

Brinell hardness for VCH100 (B4100) , GOST 7293-85

HB 10 ⁻¹ = 270 - 360 MPa

Equivalent steels for grade VCH100 (B4100)

Warning! Indicated both exact and nearest equivalents.

France	England	European	China	Bulgaria	Poland	Inter
AFNOR	BS	EN	GB	BDS	PN	ISO
FGS900-2	900/2	EN-GJS-900-2 EN-JS1090	QT900-2	900-2	ZS9002	900-2

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 / m²]
- 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

[Top](#)

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