

Database of Steel and Alloy (Marochnik)

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Characteristics for grade VCH40 (B440).

Grade :	VCH40 (B440)
Classification :	Cast iron with spheroidal graphite
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Chemical composition in % for grade VCH40 (B440)

C	Si	Mn	S	P	Cr
2.7 - 3.8	0.5 - 2.9	0.2 - 0.6	max 0.02	max 0.1	max 0.1

Mechanical properties under T=20°C for grade VCH40 (B440)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Casting, GOST 7293-85			400	250	15			

Brinell hardness for VCH40 (B440) , GOST 7293-85	HB 10 ⁻¹ = 140 - 202 MPa
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Equivalent steels for grade VCH40 (B440)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	European	Italy	Belgium	Spain	China	Sweden	Bulgaria	Poland	Czechia	Finland	Austria	Australia	Inter
-	DIN, WNr	JIS	AFNOR	BS	EN	UNI	NBN	UNE	GB	SS	BDS	PN	CSN	SFS	ONORM	AS	ISO
60-40-18	GGG40	FCD40 FCD400	400/17 FGS370-17 FGS400-12 FGS400-15	420-12	EN-GJS-400-15 EN-JS1030	GS370-17 GS400-12	FNG38-17	FGE38-17	QT400-15 QT400-18	0717-00	380-17	Zs40015	422304	GRP400	SG38	0717-02 300-17	400-12 400-15

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 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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