

Database of Steel and Alloy (Marochnik)

splav.kharkov.com/en

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

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

Characteristics for grade KCH45-7 (K45-7).

Grade :	KCH45-7 (K45-7)
Classification :	Malleable cast iron
Equivalent grades:	Go here

Chemical composition in % for grade KCH45-7 (K45-7)

C	Si	Mn	S	P	Cr	-
2.5 - 2.8	1.1 - 1.3	0.3 - 1	max 0.2	max 0.1	max 0.08	C+Si = 3.6 - 3.9

Mechanical properties under T=20°C for grade KCH45-7 (K45-7)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Casting, GOST 1215-79			441		7			

Brinell hardness for KCH45-7 (K45-7) , GOST 1215-79	HB 10⁻¹ = 150 - 207 MPa
--	---

Equivalent steels for grade KCH45-7 (K45-7)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	England	Italy	Sweden	Poland	Czechia	Austria
-	DIN, WNr	JIS	AFNOR	BS	UNI	SS	PN	CSN	ONORM
45006	GTS45-06	FCMP440	MN450-6	P45-06	P45-06	0854-00	Zcp45006	422545	GTS-450

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

[Top](#)

The entire risk as to use of the Database of Steel and Alloy (Marochnik) content is assumed by you the user

