

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 50KHNS (50XHC).

Grade :	50KHNS (50XHC)
Classification :	Magnetically soft precision alloy
Equivalent grades:	Is absent

Chemical composition in % for grade 50KHNS (50XHC)

Fe	C	Si	Mn	Ni	S	P	Cr	Cu
42.03 - 45	max 0.03	1.1 - 1.4	0.6 - 1.1	49.5 - 51	max 0.02	max 0.02	3.8 - 4.2	max 0.2

Physical properties for grade 50KHNS (50XHC)

T	E 10 ⁻⁵	α 10 ⁶	λ	ρ	C	R 10 ⁹
Grade	MPa	1/Grade	Watt/(m·Grade)	kg/m ³	J/(kg·Grade)	Ohm·m
20				8200		

Specification :

Physical properties :

- T** - Test temperature , [Grade]
- E** - Young modulus , [MPa]
- α** - Coefficient of linear expansion (range 20° - T) , [1/Grade]
- λ** - Thermal (heat) condition coefficient , [Watt/(m·Grade)]
- ρ** - Density , [kg/m³]
- C** - Specific heat (range 20° - T), [J/(kg·Grade)]
- R** - Electrical resistance , [Ohm·m]

Database of steels and alloys (Marochnik) contains information about chemical composition and properties more than 2500 steels and alloys (stainless steel, alloy steel, carbon 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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