

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 47N3KH (47H3X).

Grade :	47N3KH (47H3X)
Classification :	Precision alloy with specified temperature coefficient of linear expansion
Equivalent grades:	Is absent

Chemical composition in % for grade 47N3KH (47H3X)

Fe	C	Si	Mn	Ni	S	P	Cr	Cu
46.82 - 50.7	max 0.05	max 0.3	0.3 - 0.6	46 - 48	max 0.015	max 0.015	3 - 4	max 0.2

Technological properties of the material 47N3KH (47H3X) .

Melting temperature :	1450 °C
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Physical properties for grade 47N3KH (47H3X)

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	1.4			8200		600

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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