

Database of Steel and Alloy (Marochnik)

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Characteristics for grade LTS40AZH (ЛЦ40АЖ).

Grade :	LTS40AZH (ЛЦ40АЖ)
Classification :	Cast cooper-zinc alloys
Equivalent grades:	Is absent

Comment: **Zn** is a basis; the percentage of **Zn** is given approximately.

Mechanical properties under T=20°C for grade LTS40AZH (ЛЦ40АЖ)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
cast in a metal mould			390-470		18			
sand (mould) casting			335-930	245	20			

Brinell hardness for LTS40AZH (ЛЦ40АЖ) , cast in a metal mould	HB 10⁻¹ = 88 MPa
Brinell hardness for LTS40AZH (ЛЦ40АЖ) , sand (mould) casting	HB 10⁻¹ = 78 MPa

Technological properties of the material LTS40AZH (ЛЦ40АЖ) .

Melting temperature :	904 °C
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Physical properties for grade LTS40AZH (ЛЦ40АЖ)

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			113	8500		90
100		21.6				

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]

Physical properties :

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

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

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