

Database of Steel and Alloy (Marochnik)

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Characteristics for grade LTS40Mts3A (ЛЦ40Мц3А).

Grade :	LTS40Mts3A (ЛЦ40Мц3А)
Classification :	Cast cooper-zinc alloys
Equivalent grades:	Is absent

Chemical composition in % for grade LTS40Mts3A (ЛЦ40Мц3А)

Fe	Si	Mn	Ni	P	Al	Cu	Pb	Zn	Sb	Sn	Impurity
max 1	max 0.2	2.5 - 3.5	max 1	max 0.03	0.5 - 1.5	55 - 58.5	max 0.2	35 - 42	max 0.05	max 0.5	all 1.5

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

Mechanical properties under T=20°C for grade LTS40Mts3A (ЛЦ40Мц3А)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
cast in a metal mould, GOST 17711-93			441		15			
centrifugal casting, GOST 17711-93			441		15			

Brinell hardness for LTS40Mts3A (ЛЦ40Мц3А) , cast in a metal mould GOST 17711-93	HB 10⁻¹ = 115 MPa
Brinell hardness for LTS40Mts3A (ЛЦ40Мц3А) , centrifugal casting GOST 17711-93	HB 10⁻¹ = 115 MPa

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

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