

Database of Steel and Alloy (Marochnik)

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Characteristics for grade LTS40SD (ЛЦ40СД).

Grade :	LTS40SD (ЛЦ40СД) (ЛС59-1ЛД)
Classification :	Cast cooper-zinc alloys
Equivalent grades:	Is absent

Chemical composition in % for grade LTS40SD (ЛЦ40СД)

Fe	Si	Mn	Ni	Al	Cu	Pb	Zn	Sb	Sn	Impurity
max 0.5	max 0.2	max 0.2	max 1	max 0.2	58 - 61	0.8 - 2	35.5 - 41.2	max 0.05	max 0.3	all 1.5

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

Mechanical properties under T=20°C for grade LTS40SD (ЛЦ40СД)

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			264		18			
die casting, GOST 17711-93			196		6			

Brinell hardness for LTS40SD (ЛЦ40СД) , cast in a metal mould GOST 17711-93	HB 10⁻¹ = 100 MPa
Brinell hardness for LTS40SD (ЛЦ40СД) , die casting GOST 17711-93	HB 10⁻¹ = 70 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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