

Database of Steel and Alloy (Marochnik)

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Characteristics for grade TsAM10-5L (ЦАМ10-5Л).

Grade :	TsAM10-5L (ЦАМ10-5Л)
Classification :	Zinc antifriction alloys
Equivalent grades:	Is absent

Chemical composition in % for grade TsAM10-5L (ЦАМ10-5Л)

Fe	Si	Al	Cu	Pb	Mg	Zn	Sn	Cd	Impurity
max 0.15	max 0.1	9 - 12	4 - 5.5	max 0.03	0.03 - 0.06	81.8 - 86.62	max 0.01	max 0.02	all 0.35

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

Mechanical properties under T=20°C for grade TsAM10-5L (ЦАМ10-5Л)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
, GOST 21437-95			245		0.4			

Brinell hardness for TsAM10-5L (ЦАМ10-5Л) , GOST 21437-95	HB 10 ⁻¹ = 100 MPa
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Limiting operating condition of the material TsAM10-5L (ЦАМ10-5Л)

Load	Speed	Load * Speed	Temperature
MPa	m/s	MPa * m/s	Grade
9.8	8		80

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 / m²]
- 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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