

Database of Steel and Alloy (Marochnik)

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Characteristics for grade TSAM10-2 (ЦАМ10-2).

Grade :	TSAM10-2 (ЦАМ10-2)
Classification :	Zinc wrought alloys
Equivalent grades:	Is absent

Chemical composition in % for grade TSAM10-2 (ЦАМ10-2)

Al	Cu	Mg	Zn
10 - 10	2 - 2	0.03 - 0.03	87.97 - 87.97

Comment: **Zn** is a basis; the percentage of **Zn** is given approximately.
 Comment: shows the average concentration of alloying elements

Mechanical properties under T=20°C for grade TSAM10-2 (ЦАМ10-2)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
			350-450		15-20	45-60		

Brinell hardness for TSAM10-2 (ЦАМ10-2) ,	HB 10 ⁻¹ = 95 - 100 MPa
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Physical properties for grade TSAM10-2 (ЦАМ10-2)

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				6210		

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]

Physical properties :

- T** - Test temperature , [Grade]
- E** - Young modulus , [MPa]
- α

- Coefficient of linear expansion (range $20^{\circ} - T$), [$1/\text{Grade}$]
- λ - Thermal (heat) condition coefficient, [$\text{Watt}/(\text{m} \cdot \text{Grade})$]
- ρ - Density, [kg/m^3]
- C** - Specific heat (range $20^{\circ} - T$), [$\text{J}/(\text{kg} \cdot \text{Grade})$]
- R** - Electrical resistance, [$\text{Ohm} \cdot \text{m}$]

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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