

Database of Steel and Alloy (Marochnik)

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Characteristics for grade TSV0 (ЦВ0).

Grade :	TSV0 (ЦВ0)
Classification :	Primary zinc
Equivalent grades:	Is absent

Chemical composition in % for grade TSV0 (ЦВ0)

Fe	Al	Cu	As	Pb	Zn	Sn	Cd	Impurity
max 0.002	max 0.005	max 0.001	max 0.0005	max 0.003	min 99.995	max 0.001	max 0.002	all 0.005

Mechanical properties under T=20°C for grade TSV0 (ЦВ0)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
casted			120-140					

Brinell hardness for TSV0 (ЦВ0) , casted	HB 10 ⁻¹ = 30 - 40 MPa
Brinell hardness for TSV0 (ЦВ0) , deformed	HB 10 ⁻¹ = 35 - 45 MPa

Technological properties of the material TSV0 (ЦВ0) .

Forging temperature :	150 - 170 °C
Casting temperature :	430 - 450 °C
Linear shrinkage :	1.57 %

Physical properties for grade TSV0 (ЦВ0)

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	0.95			7130		
100		39.5				

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° - T) , [1/Grade]
 λ - Thermal (heat) condition coefficient , [Watt/(m·Grade)]
 ρ - Density , [kg/m³]
C - Specific heat (range 20° - 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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