

Database of Steel and Alloy (Marochnik)

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Characteristics for grade 1925 (1925).

Grade :	1925 (1925)
Classification :	Aluminium wrought alloys
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Chemical composition in % for grade 1925 (1925)

Fe	Si	Mn	Cr	Ti	Al	Cu	Zr	Mg	Zn	Impurity
max 0.7	max 0.7	0.2 - 0.7	max 0.2	max 0.1	90.8 - 95	max 0.8	0.1 - 0.2	1.3 - 1.8	3.4 - 4	other, each 0.05; all 0.1

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

Mechanical properties under T=20°C for grade 1925 (1925)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Pipe, GOST 18482-79			245-335	145-195	10			
Bar, GOST 21488-97			295		12			Annealing
Bar, GOST 21488-97			285	175	10			Hardening and ageing
Profile, GOST 8617-81			275-343	176-196	9-12			

Physical properties for grade 1925 (1925)

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				2770		

Equivalent steels for grade 1925 (1925)

Warning! Indicated both exact and nearest equivalents.

Inter
ISO
AlZnMg1.5Mn

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]

Physical properties :

T	- Test temperature , [Grade]
E	- Young modulus , [MPa]
α	- Coefficient of linear expansion (range 20 ^o - T) , [1/Grade]
λ	- Thermal (heat) condition coefficient , [Watt/(m·Grade)]
ρ	- Density , [kg/m ³]
C	- Specific heat (range 20 ^o - 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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