

Database of Steel and Alloy (Marochnik)

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Characteristics for grade AD00 (АД00).

Grade :	AD00 (АД00)(1010)
Classification :	Technical aluminium
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Chemical composition in % for grade AD00 (АД00)

Fe	Si	Mn	Ti	Al	Cu	Mg	Zn	Impurity
max 0.25	max 0.2	max 0.03	max 0.03	min 99.7	max 0.03	max 0.03	max 0.07	other, each 0.02;

Mechanical properties under T=20°C for grade AD00 (АД00)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Pipe, GOST 18482-79			60		20			
Band annealed , GOST 13726-97			60		20-30			
Band cold-worked , GOST 13726-97			130-145		3-5			
Plate , GOST 17232-99			64-78		15-18			

Physical properties for grade AD00 (АД00)

T	$E \cdot 10^{-5}$	$\alpha \cdot 10^6$	λ	ρ	C	$R \cdot 10^9$
Grade	MPa	1/Grade	Watt/(m·Grade)	kg/m ³	J/(kg·Grade)	Ohm·m
20				2700		

Equivalent steels for grade AD00 (АД00)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	France	European	Italy	Sweden	Poland	Czechia	Austria	Inter
-	DIN, WNr	JIS	AFNOR	EN	UNI	SS	PN	CSN	ONORM	ISO
AA1070 AA1075 AA1170 AA1175	3.0275 Al99.7	1070	1070A	ENAW-1070A ENAW-Al99.7	P-Al99.7	Al99.7	Al99.7	424003	Al99.7	1070A Al99.7

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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