

Database of Steel and Alloy (Marochnik)

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Characteristics for grade ADS (АДС).

Grade :	ADS (АДС)
Classification :	Technical aluminium
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Chemical composition in % for grade ADS (АДС)

Fe	Si	Ti	Al	Cu	Zn	Impurity
max 0.6	max 0.5	max 0.15	min 99	max 0.1	max 0.1	other, each 0.05; all 1

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

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			
Profile, GOST 8617-81			60		20			

Equivalent steels for grade ADS (АДС)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan
-	DIN, WNr	JIS
AA1100	3.0205	1100
AA1200	A99	1200

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]

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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