

Database of Steel and Alloy (Marochnik)

splat.kharkov.com/en

[Home](#) [European steel grades](#) [Steel and Alloy](#) [Search](#) [Equivalent grades](#) [Grading](#) [GOST Standard](#) [Contacts](#)

YOU HERE: [Steel and Alloy](#) -> [Aluminium alloy](#)

Characteristics for grade A7 (A7).

Grade :	A7 (A7)
Classification :	Primary aluminium
Equivalent grades:	Go here

Chemical composition in % for grade A7 (A7)

Fe	Si	Mn	Ti	Al	Cu	Mg	Zn	Ga	Impurity
max 0.16	max 0.15	max 0.03	max 0.01	min 99.7	max 0.01	max 0.02	max 0.04	max 0.03	other, each 0.02;

Mechanical properties under T=20°C for grade A7 (A7)

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			

Brinell hardness for A7 (A7) , casted

HB 10⁻¹ = 20 MPa

Equivalent steels for grade A7 (A7)

Warning! Indicated both exact and nearest equivalents.

USA	Germany	Japan	European	Poland	Czechia	Inter
-	DIN, WNr	JIS	EN	PN	CSN	ISO
Aluminium 1070 Aluminium 1070A	3.0275	1070 A1070	ENAW-1070A ENAW-Al99.7	Al99.7	424003	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]

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

[Top](#)

© 2003 - 2013 All rights reserved. [About program.](#)

The entire risk as to use of the Database of Steel and Alloy (Marochnik) content is assumed by you the user

