

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 AMg6 (AMr6).

Grade :	AMg6 (AMr6) (1560)
Classification :	Aluminium wrought alloys
Equivalent grades:	Is absent

Chemical composition in % for grade AMg6 (AMr6)

Fe	Si	Mn	Ti	Al	Cu	Be	Mg	Zn	Impurity
max 0.4	max 0.4	0.5 - 0.8	0.02 - 0.1	91.1 - 93.68	max 0.1	0.0002 - 0.005	5.8 - 6.8	max 0.2	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 AMg6 (AMr6)

Assortment	Dimension	Direct.	σ_B	σ_T	δ_5	ψ	KCU	Heat treatment
-	mm	-	MPa	MPa	%	%	kJ / m ²	-
Pipe, GOST 18482-79			315	145	15			
Bar, GOST 21488-97			285-315	120-155	15			
Band cold-worked, GOST 13726-97			375	275	6			
Band annealed, GOST 13726-97			305-315	145-155	15			
Profile, GOST 8617-81			314	157	15			
Plate, GOST 17232-99			275-305	130-145	4-11			

Brinell hardness for AMg6 (AMr6) ,	HB 10 ⁻¹ = 65 MPa
--------------------------------------	------------------------------

Physical properties for grade AMg6 (AMr6)

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	0.71			2640		67.3
100		24.7	122		922	

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

[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

