



A-Energy Group

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## Commercial Offer

Dear Buyer,

CJSC "A-ENERGY GROUP" has the honor to offer you the following product:

Number	Name of product	Package	The cost per 1 kilogram
1.	High purity aluminum (grade A5H) (see Appendix 1)	Ingot. Netto weight 2520 gr Ingot. Netto weight 2740 gr	From 510 USD
2.	High purity aluminum (grade A6H) (see Appendix 1)	Ingot. Netto weight 2520 gr Ingot. Netto weight 2740 gr	From 663 USD

High purity aluminum ingots:

Price in US Dollars.

Sum of control impurities in Aluminum Sample (P, S, Cl, K, Ca, Ti, Cr, Mn, Fe, Co, Ni, Cu, Zn, As, Cd, Sn, Sb, Pb, Bi) is no more than 0.0003% wt. The purity grade of Aluminum Sample is 99.9997 % wt. It was calculated as difference between 100 % and Sum of control Impurities.

Aluminum Sample is radiological safe. The specific natural radioactivity of Aluminum Sample is no more than 1.10 Ci/g.

The certification procedure is carried out in any laboratory in the world at the customer's request. The terms are discussed individually.

Our company works exclusively on prepayment, the quantity of the item is discussed separately. The final price depends on the terms of the transaction.

You can provide the sales contract yourself.

The cost of logistics is calculated separately and depends on the terms of the contract.

You can send any feedback and suggestions to our e-mail: [info@a-energy.am](mailto:info@a-energy.am).

Kind Regards, General Director of CJSC "A-ENERGY GROUP"

Khachatur Hakobyan



10172024

## Appendix 1

High purity aluminum (grades A5H, A6H)

Ingots:

Netto weight 2520 gr

Netto weight 2740 gr





STATE RESEARCH CENTER OF THE RUSSIAN FEDERATION  
JOINT-STOCK COMPANY  
STATE SCIENTIFIC-RESEARCH AND DESIGN INSTITUTE  
OF RARE-METAL INDUSTRY

Giredmet testing analytical center

Russia, 119017, Moscow, B. Tolmachevsky lane, Building 5-1, Tel.: (495) 981-3010, fax: (495) 953-8791; [www.giredmet.ru](http://www.giredmet.ru), [karpov@giredmet.ru](mailto:karpov@giredmet.ru)

## REPORT № 19637.18

### on Impurities Determination

Certificate supplement 3476-18

### Aluminum (metal.). Sample #715/Al/1

Sampling was made by Customer.

The impurities evaluation was made by Spark Source Mass Spectrometry. The JMS-01-BM2 double focusing mass spectrometer manufactured by JEOL (Japan) was applied. The high resolution mass spectra were photographed on Ilford-Q plates. The relative standard deviation is 0.15-0.30.

The results are presented as Parts Per Million (1 ppm = 0.0001 %)

Element	ppm macc	Element	ppm macc	Element	ppm macc
H	ND	Zn	< 0.01	Pr	< 0.03
Li	< 0.001	Ga	< 0.005	Nd	< 0.03
Be	< 0.001	Ge	< 0.01	Sm	< 0.02
B	< 0.001	As	< 0.005	Eu	< 0.04
C	ND	Se	< 0.005	Gd	< 0.01
N	ND	Br	< 0.005	Tb	< 0.04
O	ND	Rb	< 0.005	Dy	< 0.01
F	< 0.01	Sr	< 0.006	Ho	< 0.03
Na	< 0.02	Y	< 0.005	Er	< 0.02
Mg	< 0.007	Zr	< 0.01	Tm	< 0.03
Al	OCHOBA	Nb	< 0.01	Yb	< 0.02
Si	0.9	Mo	< 0.02	Lu	< 0.05
P	< 0.01	Ru	< 0.006	Hf	< 0.03
S	< 0.01	Rh	< 0.01	Ta	< 0.03
Cl	2	Pd	< 0.01	W	< 0.07
K	< 0.01	Ag	< 0.03	Re	< 0.04
Ca	0.9	Cd	< 0.008	Os	< 0.04
Sc	< 0.01	In	< 0.02	Ir	< 0.03
Ti	< 0.01	Sn	< 0.01	Pt	< 0.08
V	< 0.01	Sb	< 0.02	Au	< 0.02
Cr	0.1	Te	< 0.008	Hg	< 0.07
Mn	0.06	I	< 0.008	Tl	< 0.06
Fe	0.3	Cs	< 0.01	Pb	< 0.03
Co	< 0.02	Ba	< 0.01	Bi	< 0.03
Ni	< 0.02	La	< 0.01	Th	< 0.02
Cu	0.1	Ce	< 0.01	U	< 0.02

Chief of GIREDMET T&A Center  
Professor Yu.Karpov



Elizaveta N. Kareva  
Engineer of MS Lab

February 22, 2018

