



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 gram
1.	Tungsten metal - isotope 184W (see Appendix 1)	Ingot, net weight 253.0 g	From 3570 USD

Tungsten metal - isotope 184W:

Price in US Dollars.

The content of the stable isotope 184W in the tungsten ingot is 95.20+- 0.5%

The purity of the tungsten ingot is 99.998% by weight.

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.

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

Khachatur Hakobyan



10162024

Appendix 1

Tungsten metal - isotope 184W

Ingot, net weight 253.0 g





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) 708-4466. www.giredmet.ru, pyn@giredmet.ru

REPORT № 20124.19

on Impurities Determination

Certificate supplement 3517-19

TUNGSTEN (METAL) ISOTOPE 184W

Lot #26, Ingot #1

Sampling was made by ANSERTECO Ltd.

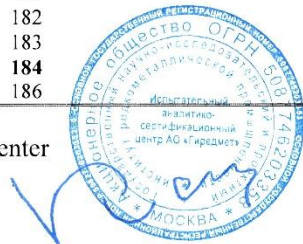
The impurities evaluation was made by Spark Source Mass Spectrometry. The JMS-01-BM2 double focusing mass spectrometer manufactured by JEOL (Japan) was applied. The high resolution mass spectra were photographed on Ilford-Q plates. The relative standard deviation is 0.15-0.30.

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

Element	ppm	Element	ppm	Element	ppm
H	ND	Zn	2	Pr	< 0.05
Li	< 0.003	Ga	< 0.03	Nd	< 0.08
Be	< 0.002	Ge	< 0.05	Sm	< 0.1
B	< 0.005	As	0.04	Eu	< 0.3
C	ND	Se	< 0.1	Gd	< 0.5
N	ND	Br	< 0.05	Tb	< 0.08
O	ND	Rb	< 0.02	Dy	< 0.3
F	1	Sr	< 0.05	Ho	< 0.1
Na	< 0.1	Y	< 0.02	Er	< 0.2
Mg	0.2	Zr	< 0.06	Tm	< 0.1
Al	0.4	Nb	0.3	Yb	< 0.5
Si	0.5	Mo	< 0.2	Lu	< 0.1
P	< 0.01	Ru	< 0.02	Hf	< 0.3
S	0.9	Rh	< 0.01	Ta	< 0.4
Cl	1	Pd	< 0.02	W	MATRIX
K	0.2	Ag	< 0.02	Re	< 0.4
Ca	1	Cd	< 0.1	Os	< 0.7
Sc	< 0.01	In	< 0.1	Ir	< 0.5
Ti	0.06	Sn	< 0.3	Pt	< 0.8
V	< 0.01	Sb	< 0.1	Au	< 0.4
Cr	0.3	Te	< 0.3	Hg	< 0.7
Mn	0.1	I	< 0.1	Tl	< 0.2
Fe	0.4	Cs	< 0.1	Pb	< 0.6
Co	< 0.03	Ba	< 0.2	Bi	< 0.3
Ni	0.2	La	< 0.05	Th	< 0.4
Cu	0.2	Ce	< 0.05	U	< 0.4

Isotope	Measured abundance, % at
180	0.0003
182	0.10
183	3.86
184	95.20±0.5
186	0.83

Chief of GIREDMET T&A Center
Professor Yu.Karpov



Elizaveta N. Kareva
Engineer of MS Lab

July 15, 2019

