



长沙亚光经贸有限公司

Changsha Asian Light Economic Trade Co.,Ltd.

地址：湖南省长沙市万家丽中路新世纪家园 D3-106 室

Add: D3-106RM of New Century Home,Wanjiali Middle Road.Changsha.China

Indium Products

1.Our company specializes in producing indium ingot(in 2N,3N,4N, 5N, 6N, 7N purity grade) and indium products.

Indium ingot: Standard: YS/T257-1998

Assay method: ICP analysis purity

Appearance: Silvery-white

Molecular Weight: 114.82,

Density: 7.31g/cm³

Melting Point:156.61°C

Resistivity: 8.37 mΩ cm

Package:0.5kg/Ingot,20~25kg/case

Application: It mainly used in ITO film, solder in electronic industry, sealing element in low temperature and vacuum area, solubility anode and nuclear reactor control bar.

Indium ingot:In 99.999%min

Impurity: ppm.

Cu 0.28 Ag0.46 Mg0.28 Ni0.24 Zn0.42 Fe0.49

Cd0.03 As0.50 Si < 1.0 S < 1.0 Al0.2 Ti0.04

Pb0.58 Sn0.98 Ca0.29 Sum < 10

Form & color:trapezia,surface is slick,silvery white and metal lust

Main use:main used in alloy, such as bearing alloy, low-melting alloy, anti-corrosion alloy, dental alloy, and alloy coat. Also used in LCD and vidicon, infrared receiver, alloy junction of diode, transistor and rectifier, solar battery, and energy industry, nuclear industry and catalyst.

[Http://www.zgmy.net](http://www.zgmy.net)

Email Address: trade@zgmy.net; cabinnature@gmail.com

Instant Message: QQ: 1537321489;Skype : castle8009

Tel: +86-731-84775381 ex 81

MP: +86-18974905158

Partner Factory: Liuyang City Asian Light Advanced Material Co.,Ltd.; Changsha Asian Light Metal&Chemical Co.,Ltd.



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Indium ingot: In 99.9999%min

Impurity PPM Max each (ICP-MS)

Fe/Cu/Pb/Mg/Si/S 0.1 , Cd 0.005, Sn 0.2

Size: about 0.5kg/ingot

Packing: in composite aluminum bag , carton box outside.

It can be also produced according to customer's requirements, especially on purity content.

We have two kinds of 7N indium available depends on different application by end-users.

Indium ingot: In 99.99999%min

Impurity PPM max each (ICP-MS).

Cu/Ag/Ti 0.002 each, Mg/Ni/Cd/Fe/Si/Se 0.005 , Zn 0.02, Pb 0.01, Sn 0.1, As/Al/S 0.001

Size: about 0.1kg round ingot, Diameter (7-45mm) x Length 30-100mm

Packing: in vacuumed composite aluminum bag.

Shipment: 10days after order and payment.

Although the Tin is comparatively higher, it will not affect the downstream product if it is not used for InSb compound semiconductor.

2.Indium Powder

Our company is a unique company in the market offering high purity and extra fine indium powder and has enjoyed great popularity in the world market! We always stick to the base principle of development, innovation, honesty, sell the products at superior quality and favorable price, welcome your comments and suggestions , desiring to establish long-term cooperations and partner relationships with domestic and foreign manufactories and develop together, stronger together!

Standard: GB6607-86

Mesh size: -100 ~ 800mesh, 1 ~ 5 μ m

Contents: In \geq 99.9% 99.99% 99.999%

Purity:Tested by ICP—AES means

Specifications:

Indium powder :In 99.99% 100mesh

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Indium powder :In 99.99% 200mesh

Indium powder :In 99.99% 300mesh

Indium powder :In 99.99% 450mesh

Indium powder :In 99.99% 600mesh

Indium powder :In 99.99% 800mesh

Indium powder :In 99.99% 1000mesh(or as requested)

Appearance: Silvery

Molecular Weight: 114.82,

Density: 7.31g/cm³

Melting Point:156.61°C

Resistivity: 8.37 mΩ cm

Package: 1kg/Plastic bottle

Application: It is particularly used as a sealing material in vacuum area and also as a bonding material in acoustic transducers. Indium is also widely used in manufacturing of "fusible" materials, a range of alloys(such as bearing alloy, low-melting alloy, anti-corrosion alloy, dental alloy, and alloy coat)and can be used as thermal fuses and solders, Lead-free solder paste, Electronic Conductive Adhesives . Doping agent of compound semiconductor, high purity alloy and semiconductor materials.

Characterisation Methods

3.Indium Wire

Our company can produce different kinds of indium wire and 99.995% indium bar according to the customer's request.

For example:

1mm diameter Indium (99.99%) wire

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Standard: GB6607-86

Size: Diameter 1mm-5mm (or as requested)

Chemical contents: In \geq 99.99% (99.999% ~ 99.9999%)

Cu \leq 5.0ppm,Cd \leq 5.0ppm,Pb \leq 5.0ppm,Tl \leq 5.0ppm,
Sn \leq 6.0ppm,Zn \leq 5.0ppm,Fe \leq 7.0ppm,As \leq 5.0ppm,
Al \leq 5.0ppm.

Appearance: Silvery wire, metallic luster, soft

Molecular Weight: 114.82,

Density: 7.31g/cm³

Melting Point:156.61°C

Resistivity: 8.37 mΩ cm

Tensile strength: 2.14MPa

Package: 0.5kg/roll or 0.25kg/roll

Main use: Doping agent of compound semiconductor, high purity alloy and semiconductor materials.

It is widely used in the electronic industry, hi-tech sealing materials, and in vacuum coating.

Besides, we can do processing against buyer's raw material as requested.

The gloss of the product is very good by using our indium wire for vacuum coating., it won't become yellow, our product has reaped many good comments from our customer.

4.Indium Foil/Indium Plate

Indium Foil & Indium Strap & Indium Ring & Indium film

Our company can produce a range of Indium Foils and Indium Straps as requested.

The Indium Ring is made according to the full-size drawing customer supplies. Generally, the specifications of indium foil we manufacture as following:

In Foil: In99.995% 0.05*100*100mm

In Foil: In99.995% 0.1*100*100mm

In Foil: In99.995% 0.15*100*100mm

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In Foil: In99.995% 0.2*100*100mm

In Foil: In99.995% 0.25*100*100mm

.....

In Foil: In99.995% 6 *100*100mm

In Foil: In99.995% 0.1 *200*200mm

Appearance: Silvery-white, metallic luster, soft

Molecular Weight: 114.82,

Density: 7.31g/cm³

Melting Point:156.61°C

Resistivity: 8.37 mΩ cm

Application: It is widely used in the electronic industry ,conductor radiating and hi-tech sealing materials (Vacuum seal foil) .

Standard: GB6607-86

Main use: conductor radiating.

Size: 100×100×0.1mm (or as requested)

Chemical Contents:In≥99.99%(99%~99.999%~99.9999%)

Cu≤5.0ppm, Cd≤5.0ppm, Pb≤5.0ppm, Tl≤5.0ppm,

Sn≤5.0ppm, Zn≤5.0ppm,Fe ≤5.0ppm, As≤5.0ppm, Al≤5.0ppm.

5.Indium Granule

We produce the indium granule (ball) in different diameters.

Chemical Formula : In

Purity: >=99.99%

Melting Point: 156.61°C

Boiling Point: 2072°C

Size : The size may be made according to customer's request, such as

Powder: -100~900mesh & 1~5μm

Ball: Dia1.0~5.0mm

Characterisation Methods

Purity : Tested by ICP—AES means

Generally our company produces indium granules as below:

In99.99-99.99999%

Diameter: 0.5mm

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In99.99-99.99999%	Diameter:1 mm
In99.99-99.99999%	Diameter: 2mm
In99.99-99.99999%	Diameter:3 mm
In99.99-99.99999%	Diameter: 0.5mm~6mm or up (or as requested)

Appearance: Silvery, metallic luster

Molecular Weight: 114.82,

Density: 7.31g/cm³

Melting Point:156.61°C

Resistivity: 8.37 mΩ cm

Package: vacuum or as requested

Application: Used in the compound semiconductor, the high pure alloy and the semiconducting material as doping agent, the contact material and so on. the main raw materials of preparation of ITO foil and group III ~V semiconductor, also is the basic materials of synthetic organic indium series. in addition, can be used as catalyst of organic reaction. have a wide application in organic synthesis and electronic industry.Uses in the compound semiconductor, the high pure alloy and the semiconducting material as doping agent, the contact material and so on.

6.Indium Alloy Wire

Our company manufactures a range of Indium Alloy Wires as requested.

We can produce Indium-Tin Alloy Wire, Indium-silver Alloy Wire, Indium-zinc Alloy Wire, Indium-Lead Alloy wire and so on.

Specification:

Indium-Tin Alloy Wire: In 5% Sn 95%

Indium-Tin Alloy Wire: In 10% Sn 90%

Indium-Tin Alloy Wire: In 15% Sn 85%

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Indium-Tin Alloy Wire: In 90% Sn 10%

Indium-Tin Alloy Wire: In 95% Sn 5%

Package: 1kg/roll

we guarantee the quality for Indium-Tin Alloy Wire. If the product does not match customer's requirement,we'll exchange the goods to customers unconditionally

Indium Alloy Wire

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Application: It is widely used in the electronic industry, hi-tech sealing materials, and in vacuum coating.

We can guarantee the quality of the products,if the quality doesn't match, we will exchange or return the purchase unconditionally.

7.Indium Oxide

Indium oxide(Indium (III) oxide) In_2O_3

Indium oxide(Indium (III) oxide)produced by our company has a good characteristics of high purity and fine particles:

Due to Indium Oxide have good characteristics of high purity and fine particles, they are extensively applied in color-glass, ceramic, alkaline-manganese battery andchemical reagent industries. Over the years, they are mass-produced in high-new technology and military fields, such as photoelectricity industry. Especially it can be made into ITO, transparent electrode and transparent thermal reflector,etc,which is used for manufacturing of panel display and demist. It is one of research hotspots among today information hi-tech fields.

Physical and Chemical Properties

Molecular Weight	Molecular Weight	Weight	Purity	Color	Appearance	Particle Size
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In_2O_3	277.64	$\geq 99.99\%$	White	Power	99.9%	Pass 200 mesh
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In_2O_3 : $\geq 99.99\%$ Granularity:20~70nm or 0.1-0.5um

Molecular formular: In_2O_3

CAS: 1312-43-2

Appearance: light yellow powder

Density: 7.179g/cm³

Melting point:1910°C

Solubility in water: insoluble

Impurities Contents

Elements Al Sb Cd Cu Fe Pb Ni Sn As Co Mo

Content ppm(\leq) 5 5 5 5 8 15 5 5 2 15 3

Test Method

Particle size: to be tested SSA with GB13390 BET method and TEM photo;

Purity: ICP-AES for impurities contents.

Package

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It is packed in a white plastic bottle inner with vacuum polyethylene bag.

Net weight 1000grams in a bottle.

Application:

It is widely used in:

- a.color-glass, ceramic, alkaline-manganese battery ;
- b.manufacturing thin film infrared reflectors transparent for visible light (hot mirrors), some optical coatings, and some antistatic coatings;
- c.in combination with tin dioxide, indium oxide forms indium tin oxide (also called tin doped indium oxide or ITO), a material used for transparent conductive coatings;
- d.Indium oxide nanowires can serve as sensitive and specific redox protein sensors;
- e.a layer of indium oxide on a silicon substrate can be deposited from an indium trichloride solution, a method useful for manufacture of solar cells

8.Indium Hydroxide

Our company produces high purity and fine particle Indium hydroxide.

Alisa:Indium hydroxide(In(OH)3);Indium trihydroxide;Indium(III) hydroxide;NSC 127173

CAS No.:20661-21-6

EINECS No.:243-947-7

Appearance: White, free flowing powder

Molecular weight: 165.84

Solubility: Insoluble in water, soluble in acids

Decomposes above 150°C

Application: It is used for manufacturing of panel display and demist.

Item (content,%)	index	
	4N	5N
In(OH)	99.99	99.999
Al	0.0005	0.00015

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As	0.0002	0.00005
Cd	0.0005	0.00005
Cu	0.0005	0.00005
Fe	0.0010	0.00010
Pb	0.0005	0.00010
Sn	0.0008	0.00015
Tl	0.0005	0.00015
Zn	0.0005	0.00010

Physical and chemical properties

Molecular Formula Molecular Weight Purity Color Appearance Particle Size

Pass 200 mesh

$\text{In}(\text{OH})_3$ 165.82 $\geq 99.99\%$ white powder 99.9%

Impurities Contents

Elements Fe Cd Ni Cu Pb Sb Cr Zn Sn Si

Content ppm 8 5 5 5 15 5 5 5 15 10

Test Method

Particle Size: to be tested SSA with GB13390 BET method and TEM Photo;

Purity: ICP-AES for impurities contents.

9. Indium Sulfide

Our company can produce Indium trisulfide in good quality.

There are two variations of Indium trisulfide: α and β

Purity :99.99% 99.999%

Density:4.613~4.9g/cm³

Melting point:1050 ~1095 °C

CAS:12030-24-9

Appearance:Orange powder

Characteristics:

- a.stable at room temperature
- b.good hygroscopicity
- c.don't dissolve in water or acid

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D.volatile.

Application: Due to Indium trisulfide has above characteristics, In_2S_3 , a kind of excellent catalyst, easy to react with other metallic sulfides to form compounds, such as silver indium disulphide, copper indium disulphide, which are important semiconductor materials.

10.Indium Sulphate

Our company can supply a series of Indium Sulfate products.

It can be manufactured according to the requirements of customers with different crystal water, such as $\text{In}_2(\text{SO}_4)_3 \cdot 9\text{H}_2\text{O}$.

Alias:Indium Sulfate; Diindium tris(sulphate); Indium (III) sulfate; Sulfuric acid indium(3+) salt (3:2)

Molecular Formula: $\text{In}_2(\text{SO}_4)_3 \cdot 9\text{H}_2\text{O}$ $\text{In}_2(\text{SO}_4)_3$

Molecular Weight: 679.64

Appearance: white crystalline powder

Characteristic: deliquescent and easily dissolves in water.

Package: It is packed in a white plastic bottle inner with vacuum polyethylene bag.

Application: It is mainly used for liquid of plating indium

purity In content color appearance

99.995% 33.8 white crystal

Specification(%):

elements Fe Cd Al Cu Pb Sb As Zn Sn

specification(ppm) 5 5 4 4 5 5 4 5 5

Packing:It is packed in a white plastic bottle inner with vacuum polyethylene bag. Net weight is 500g.

11.Indium Nitrate

Our company can supply a series of Indium Nitrate products.

It can be manufactured according to the requirements of customers with different crystal water. Generally, we manufacture $\text{In}(\text{NO}_3)_3 \cdot 4\text{H}_2\text{O}$ and $\text{In}(\text{NO}_3)_3 \cdot 5\text{H}_2\text{O}$.

Alisa:Indium nitrate(6Cl,7Cl); Nitric acid, indium(3+) salt (8Cl,9Cl); Indium nitrate ($\text{In}(\text{NO}_3)_3$);Indium trinitrate; Indium(III) nitrate

CAS No.:13770-61-1

EINECS No.:237-393-5

Molecular Formula: $\text{In}(\text{NO}_3)_3$

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Purity :99.995% (In 30.1%) 99.999%

Molecular Weight: 390.8

Appearance: white tabular crystal

Characteristic:a.deliquescent;

b.easily dissolves in water and grain alcohol;

c.melting point is 100°C (a part of crystal water will lose).

Package: It is packed in a white plastic bottle inner with vacuum polyethylene bag or as requested.

Application: It is used for production of Indium Salt and In₂O₃.

Notes: It easily blazes if combined with organic matter, reducing agent, sulfur and phosphorus, etc. It will cause an explosion when rubbed or shocked.

Attentions: it easily blaze if combine with organic matter, reducing agent, sulfur and phosphorus, etc. It will cause explosion when be rubbed and shocked.

Purity	In content	color	appearance
99.995%	30.1	white	crystal

specification(%):

elements	Fe	Cd	Al	Cu	Pb	Sb	As	Zn	Sn
specification(ppm)	5	5	4	4	5	5	4	5	5

packing:

It is packed in a white plastic bottle inner with vacuum polyethylene bag. Net weight is 1kg. We can provide special package according customers' requirement.

12.Indium Trichloride

Our company produces Indium trichloride without water of crystallization or containing multi-crystal water.

Generally, we manufacture InCl₃·4H₂O and InCl₃·5H₂O.

Purity:99.99% 99.999%

CAS:10025-82-8

Appearance: white sheet crystal(dissolve in water)

Density:3.46g/cm³

Melting point:586°C

Application:It is widely used for production of phosphor powder,III-V compound semiconductor, low- pressure sodium lamp, (Zn)anticorrosive additive and ITO battery,Solar Energy, etc.

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It is the main material in manufacturing ITO film and III-V semiconductor material, and the basic material in alloying organic indium series. It can also be used as catalyst in organic reactions, it has been widely used in organic alloy and electrical industry.

Element purity	purity	
	99.99%	99.999%
Al	3ppm	<1ppm
Ca	1ppm	<1ppm
Cr	1ppm	<1ppm
Co	3ppm	<1ppm
Fe	4ppm	<1ppm
Ge	<2ppm	<1ppm
In	<5ppm	<1ppm
Mg	2ppm	<1ppm
Na	8ppm	<5ppm
Ni	<1ppm	<1ppm
Si	<1ppm	<5ppm
Sn	12ppm	<5ppm
Zn	8ppm	<3ppm

Elements	unit	index	result
InCl ₃	≥, %	25.0	25.0
Fe	≤, ppm	20	2.5
Cu	≤, ppm	10	0.8
Co	≤, ppm	10	0.5
Ni	≤, ppm	10	1.1
Pb	≤, ppm	10	4.0
Ca	≤, ppm	10	0.5
Mo	≤, ppm	10	--
HCL	≤, g/L	10	--

Application: Used for production of phosphor powder, III- V compound semiconductor, low- pressure sodium lamp, (Zn)anticorrosive additive and ITO battery, etc.

We can produce high purity indium trichloride contains multi-crystal water.

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13.Indium Target

Our company can manufacture kinds of indium target and indium alloy target as requested.

Our company can produce many kinds of metal target, such as 4N-6N indium target, indium-silver alloy target, indium-tin alloy target, indium-lead alloy target and indium-zinc alloy target and so on.

Indium target: In 98-99%

Indium target: In 99.99%

Indium target: In 99.999%

Indium target: In99.9999%

We can also produce it according to customer's requirements or pictures.Our company can manufacture kinds of indium target and indium alloy target as requested.

Our company can produce many kinds of metal target, such as 4N-6N indium target, indium-silver alloy target, indium-tin alloy target, indium-lead alloy target and indium-zinc alloy target and so on.

Indium target:In 98-99%

Indium target: In 99.99%

Indium target: In 99.999%

Indium target: In99.9999%

We can also produce it according to customer's requirements or pictures.

14.Indium Acetate

Indium acetate $\text{In}(\text{C}_2\text{H}_3\text{O}_2)_3$

Our company can supply you Indium Acetate to your satisfaction.

Appearance: White powder

Alisa:Aceticacid, indium(3+) salt (8Cl,9Cl); Indium acetate (6Cl,7Cl); Indium triacetate

Purity: 99.99%

Molecular Weight : 291.86

CAS:25114-58-3

Molecular Formula:C₂H₄ O₂.1/3 In

15.Indium Tin Oxide Powder

Our company can produce yellow or blue indium tin oxide powder(ITO powder).

CAS No.:50926-11-9

[Http://www.zgmy.net](http://www.zgmy.net)

Email Address: trade@zgmy.net; cabinnature@gmail.com

Instant Message: QQ: 1537321489;Skype : castle8009

Tel: +86-731-84775381 ex 81

MP: +86-18974905158

Partner Factory: Liuyang City Asian Light Advanced Material Co.,Ltd.; Changsha Asian Light Metal&Chemical Co.,Ltd.



长沙亚光经贸有限公司

Changsha Asian Light Economic Trade Co.,Ltd.

地址：湖南省长沙市万家丽中路新世纪家园 D3-106 室

Add: D3-106RM of New Century Home,Wanjiali Middle Road.Changsha.China

Molecular Formula:In₂O₅Sn

Molecular Weight:428.343

(1)Composition: In₂O₃/SnO₂=90/10wt% , In₂O₃/SnO₂=95/5wt%

Color : Yellow

Purity : >=99.99%

Particle Size: 20~70nm

Relative Density : 7.12~7.16g/cm³

Principal Uses: Transparent electricity conductive glue, radiation protection, infrared ray(IR) protection and antistatic coating.

Inspection Methods

Particle Size:GB13390 Powder surface area/mass ratio (BET)-tested by nitrogen adsorption means and then combines with TEM photos.

Purity : Tested by ICP-AES means

(2)Composition: In₂O₃/SnO₂=90/10wt% , In₂O₃/SnO₂=95/5wt%

Color : blue

Purity : >=99.99%

Indium Tin Oxide Powder (ITO Powder)

Our company can produce yellow or blue indium tin oxide powder(ITO powder).

Composition: In₂O₃/SnO₂=90/10wt% , In₂O₃/SnO₂=95/5wt%

Color : Yellow , Light blue, light green yellow

Purity : >=99.995%

Composition: In₂O₃/SnO₂=90/10wt% , In₂O₃/SnO₂=95/5wt%

Particle Size: 20~70nm

CAS:50926-11-9

Relative Density : 7.12~7.16g/cm³

Principal Uses: Transparent electricity conductive glue, radiation protection, infrared ray(IR) protection and antistatic coating.

Principal Uses

Transparent electricity conductive glue, radiation protection,infrared ray(IR) protection and antistatic coating.

Physical Properties

Chemical Formula : In₂O₃/SnO₂

Color : Yellow

Purity :>=99.99%

Particle Size : 20~70nm

Relative Density :7.12~7.16g/cm³

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Impurity (Unit: ppm) : Element Al Sb Cd Cu Fe Pb Ni Si Zn Ba

Content (<=) 5 5 5 10 10 10 10 15 5 5

Characterisation Methods

Particle Size: GB13390 Powder surface area/mass ratio (BET)-tested by nitrogen adsorption means

and then combines with TEM photo

Purity :Tested by ICP—AES means

Vanadium Products

1. Vanadium Pentoxide

Our factory can produce vanadium pentoxide 98-99.99% or as required in good quality and can supply you the product at competitive price.

All of our products inspection by CIQ.

Formula: V2O5

Appearance: Orange yellow, sorrel crystalline powder or ash black flake
98-99% ash black flake

98-99% also can be orange yellow, sorrel crystalline powder, 99% and up are all orange yellow, sorrel crystalline powder

CAS NO.1314-62-1

Density: 3.357g/cm³(solid)

Melting point:690 °C (963 K)

Boiling point 1750 °C (2020 K)

Solubility in water 0.8 g/100 mL (20 °C)

Packaging: 50 kg/iron drum or 100 kg/iron drum

Application: flake V2O5 is mainly used in steel and ferrovanadium, powder V2O5 is widely applied in producing Sulfuric acid catalyst , Inorganic chemicals , chemical reagent, porcelain enamel and magnetic materials. The application of V2O5 in the area of non-steel becomes more and more widely which has covered the field of aerospace, chemistry, battery, pigment, glass, optics and pharmacology etc.

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1.Vanadium pentoxide (industrial grade)

Brand	Purity (min)	Chemical contents (% ,max)					
	V2O5	Si	Fe	P	S	As	Na2O+K2O
V ₂ O ₅ 99	99.0	0.15	0.20	0.03	0.01	0.01	1.0
V ₂ O ₅ 98	98.0	0.25	0.30	0.05	0.03	0.02	1.5

2.Vanadium pentoxide 99.5% (industrial grade)

Contents%		Results(%)
V2O5		≥99.5%
Impurity Content (max %)	Na+K	0.3
	Si	0.1
	Fe	0.05
	S	0.005
	P	0.01
	As	0.005

3.SP(Spectrum pure) Vanadium pentoxide (V2O5)

Name of product	Impurity contents PPM (max)							
SP V2O5	Ag	Al	B	Ba	Be	Bi	Ca	Cd
	1	1	2	3	1	10	1	1
	Co	Cr	Cu	Fe	Li	Mg	Mo	Mn
	2	1	1	1	1	1	1	1
	Na	Ni	Pb	Si	Sn	Ti	Zn	

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	3	5	2	5	5	10	1	
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4. EP (Extra pure) 99.99% Vanadium pentoxide (V2O5)

Name of product	Impurity contents PPM (max)
EP V2O5 99.99%	Ag, Al, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mo, Mn, Na, Ni, Pb, Si, Sn, Ti, Zn
Total impurity contents above are always less than 100 ppm	

5. GR (Guaranteed reagent) Vanadium pentoxide (V2O5)

Name of product: V2O5 GR		Purity: 99.5%
Impurity content (wt %)	Insoluble matter content of hydrochloric acid and silicate	0.1
	calcination loss	0.1
	chlorides (Cl-)	0.005
	sulfate (SO4)	0.01
	Ammonium salts (NH4)	0.02
	sodium (Na)	0.02
	iron (Fe)	0.01
	Heavy metal (Pb)	0.002

6. AR (Analytical reagent) Vanadium pentoxide (V2O5)

Name of product: V2O5 AR		Purity: 99.0 %
Impurity content (wt %)	Insoluble matter content of hydrochloric acid and silicate	0.2
	calcination loss	0.15
	chlorides (Cl-)	0.01

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	sulfate (SO4)	0.02
	Ammonium salts (NH4)	0.05
	sodium (Na)	0.04
	iron (Fe)	0.02
	Heavy metal (Pb)	0.005

7. CP (Chemical pure) Vanadium pentoxide (V2O5)

Name of product: V2O5 CP		Purity: 99.0 %
Impurity content (wt %) (wt %)	Insoluble matter content of hydrochloric acid and silicate	0.3
	calcination loss	0.25
	chlorides (Cl)	0.02
	sulfate (SO4)	0.04
	Ammonium salts (NH4)	0.10
	sodium (Na)	0.10
	iron (Fe)	0.03
	Heavy metal (Pb)	0.010

50kg / iron drum

- EINECS number:2152398

- EU Number:023-001-00-8

2. Ammonium Metavanadate

Our company can produce Ammonium Metavanadate 98-99.9% in large quantity.

We can produce Ammonium Metavanadate according to customers' required specification.

Ammonium Metavanadate (industrial grade):98-99%

Ammonium Metavanadate:99.5-99.9%

Ammonium Metavanadate AR

Ammonium Metavanadate CP

Ammonium Metavanadate 99.5%

V2O5	S	Fe
≥77%	≤0.02%	≤0.01
Cl		
≤0.1%		

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. AR (Analytical reagent) Ammonium Metavanadate (NH_4VO_3)

Name of product: NH_4VO_3 AR		Purity: 99.0 %
Specifications (wt %)	Experiment on solubility in ammonia	Qualified
	Carbonate(CO_3)	Qualified
	Sulfate(SO_4)	0.01
	Iron(Fe)	0.005
	Chlorides (Cl-)	0.005

CP (Chemical pure) Ammonium Metavanadate (NH_4VO_3)

Name of product: NH_4VO_3 CP		Purity: 98.0 %
Specifications (wt %)	Experiment on solubility in ammonia	Qualified
	Carbonate(CO_3)	Qualified
	Sulfate(SO_4)	0.02
	Iron(Fe)	0.01
	Chlorides (Cl-)	0.05

Package: 50Kg/iron barrel

Appearance: white or light yellow crystalline powder

Formula: NH_4VO_3

CAS: 7803-55-6

Application: It is widely used in making V_2O_5 , and used as chemical reagent, catalyst, drier, mordant etc, and it is also widely used as frit in ceramic industry.

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3. Potassium Metavanadate

Our company can produce Potassium Metavanadate 98-99.5% in good quality.We can produce Potassium Metavanadate according to customers' required specification.

Potassium Metavanadate: 98-99.5%

Property: white powder

Fomula: KVO3

CAS NO. :13769-43-2

Package: 50Kg/iron barrel

	(wt%)
KVO3	99.60
K	27.73
Na	0.159
P	0.001
Si	0.0105
Fe	0.0015
W	0.001
Cl	0.0045
Mo	0.0024
As	0.001
Cr	0.001
Al	0.0051
S	0.0033
H2O	0.05

Brand	Purity (%min)	Chemical contents (%min)	Impurity contents (% , max)	Appearance

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	KVO3	V2O5	K2O	S	Na	Fe	White powder
	98	64.5	33%	0.02	0.2	0.02	

Application: It is mainly used as catalyst,drier,mordant, analytical reagent etc.

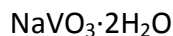
Package: 50Kg/iron barrel

4. Sodium Metavanadate

We can produce Sodium Metavanadate according to customers' required specification.



NaVO_3	V_2O_5	Na_2O
$\geq 98\%$	$\geq 73\%$	$\geq 24.8\%$
S	K	Fe
$\leq 0.02\%$	$\leq 0.5\%$	$\leq 0.02\%$



$\text{NaVO}_3 \cdot 2\text{H}_2\text{O}$	V_2O_5	Na_2O
$\geq 98\%$	$\geq 56\%$	$\geq 19\%$
S	K	Fe
$\leq 0.02\%$	$\leq 0.3\%$	$\leq 0.02\%$

Packaging: 25kg/iron barrel

Property: white crystalline powder or light yellow crystalline powder, soluble in water easily.

CAS NO. : 13718-26-8

Formula: NaVO_3

Molecular weight : 121.9295 g·mol⁻¹

Density: 5.15 g/cm³

Melting point: 630 °C

Application: General purpose reagent, used as analytical reagent, photography industry, mordant, pharmaceutical industry, and also making vanadium catalyst, vanadium alloy etc.

5. Vanadyl Sulfate

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Vanadyl Sulfate

Our company can produce 97% Vanadyl Sulfate

Molecular formula: $VOSO_4 \cdot xH_2O$

Molecular weight: 163.0(as no water)

Properties: It is blue crystal with crystallization water which is possibly as much as 50%. It is easy to dissolve in water.

Specifications: USP28

Vanadyl Sulfate powder	VRB Grade	AR	CP
Content (As dry basis) %	≥98	≥97.0	≥97.0
Moisture%	≤50	≤50	≤50
Fe	≤0.002	≤0.003	≤0.003
Pentavalent vanadium%	≤0.6	≤0.5	≤0.6
Non-sediment in Ammonia%	≤2.0	≤1.0	≤2.0

Appearance: The product is blue crystal, contains crystal water which is more than 50%, soluble in water. Moreover, we can produce this product which is blue liquids.

NAME	TECHNIQUE DATA
COMMDITY NAME	VOSO4 (Liquids)
V	9.66%
VOSO4	30.9%,
Fe	≤0.15%
K	≤0.10%
Na	≤0.15%
PROPORTION	1.364g/cc
APPEARANCE	PRUSSIAN BLUE VISCOUS LIQUIDS

Application: It is used as mordant, catalytic reductant, ceramics, and colorant of glass.

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6. Vanadium Nitride

Vanadium Nitride (vanadium-nitrogen alloy)

We can offer you the vanadium nitride which can instead of ferro vanadium using in micro alloyed steel .The V content 77~81%.

1、 vanadium nitride chemical analysis (%)

Item	Mass fraction (%)				
	V	N	C	P	S
VN12	77~81	10.0~<14.0	≤10.0	≤0.06	≤0.06
VN16		>14.0~18.0	≤6.0		

2、 apparent density:≥3.0grams/cubic centimeter

3、 characteristic:

a. Vanadium nitride is more effective than ferro vanadium in grain refinement and strengthen.

b. Vanadium nitride can save the adding amount of vanadium ,under the same strength condition vanadium nitride can save 20-40% compared vanadium than ferro vanadium .

c.Vanadium, nitrogen yield stable, reduce the performance of the steel fluctuations

d. Easy to use,less waste. The high strength moistureproof packaging, can be directly charging.

V 77~81%, N 10.0~<14.0, N>14.0~18.0

CAS NO.:24646-85-3

EINECS NO.:246-382-4

7. Vanadium Metal

We can supply customer vanadium metal in branchlike form or powder form .

1. Vanadium metal (branch crystal)

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Name of product		Brand	Property	Chemical composition %					
				V content (min)	Impurity content(max)				
					Fe	Cr	Al	Si	O
Vanadium metal	High purity	V-1	branch crystal	99.95	0.005	0.006	0.01	0.004	0.025
		V-2		99.93	0.015	0.015	0.01	0.004	0.030
		V-3		99.9	0.025	0.025	0.01	0.004	0.036
	com on	V-4		99.5	0.10	0.10	0.05	0.05	0.08
		V-5		99	0.15	0.15	0.08	0.08	0.1

Property:Physical property: Melting point of V is 1890°C, It can resist corrosion well, has good ductility and forgeability. silvery or gray metal color, in branched or cavernous form, no invisible impurity materials. Melting point is 1890°C.

Application: used for producing high purity vanadium product or vanadium alloys. It is used as casting as ingot and making pure vanadium product, it can be made vanadium alloy with other element, also used as additional element in making titanium based alloy and special alloy which is heat-resistant well. Moreover, it can be used in making FBR, bag set of nuclear fuel, superconductor. It is the filament materials and getter materials of making vacuum tube.

Name of product		Brand	Property	Chemical composition %					
				V content (min)	Impurity content(max)				
					Fe	Cr	Al	Si	O
Vanadium metal	High purity	V-1	branch crystal	99.95	0.005	0.006	0.01	0.004	0.025
		V-2		99.93	0.015	0.015	0.01	0.004	0.030
		V-3		99.9	0.025	0.025	0.01	0.004	0.036
	com on	V-4		99.5	0.10	0.10	0.05	0.05	0.08
		V-5		99	0.15	0.15	0.08	0.08	0.1

Property: silvery or gray metal color, in branched or cavernous form, no invisible impurity materials. Melting point is 1890°C.

Application: used for producing high purity vanadium product or vanadium alloys.

Vanadium metal powder

Name of product		Brand	Property (mesh)	Chemical content %					
				V content (min)	Impurity content(max)				
					Fe	Cr	Al	Si	O
Van	Hig	FV-0	-200	99.90	0.035	0.01	0.01	0.004	0.05

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adiu m pow der	h puri ty	FV—0	-325	99.90	0.035	0.01	0.01	0.004	0.05
	com mo m	FV—1	-200	99.50	0.10	0.05	0.10	0.10	0.10
		FV—1	-325	99.50	0.10	0.05	0.10	0.10	0.10

Vanadium metal

Name	Brand	Appearance	Chemical composition %					
			V	Fe	Si	Al	O	C
Vanadium used in nuclear	V-1h	Branchlike crystal	99.907	0.005	0.004	0.01	0.025	0.01
			N	Cu	Cd	Co	Nb	Mo
			0.01	0.006	0.003	0.005	0.01	0.005

2. Vanadium metal powder

Name of product	Brand	Property (mesh)	Chemical content %						
			V content (min)	Impurity content(max)					
				Fe	Cr	Al	Si	O	
Vanadium powder	High purity	FV—0	-200	99.90	0.035	0.01	0.01	0.004	0.05
		FV—0	-325	99.90	0.035	0.01	0.01	0.004	0.05
	com mo m	FV—1	-200	99.50	0.10	0.05	0.10	0.10	0.10
		FV—1	-325	99.50	0.10	0.05	0.10	0.10	0.10

3. Vanadium metal

Name	Brand	Appearance	Chemical composition %
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Vanadium used in nuclear	V-1h	Branchlike crystal	V	Fe	Si	Al	O	C
			99.907	0.005	0.004	0.01	0.025	0.01
			N	Cu	Cd	Co	Nb	Mo
			0.01	0.006	0.003	0.005	0.01	0.005

8. Vanadium Carbide

We sell vanadium carbide

ITEM		FVC-01	FVC-1	FVC-2	
Impurity content % Not more than	T.C	17.5-18.0	17.7-18.5	16.0-16.9	
	F.C	≤1.5	≤1.25	≤0.50	
	O	1.0	0.50	0.40	
	N	0.30	0.30	0.35	
	Fe	0.10	0.15	0.10	
	Ca	0.05	0.05	0.05	
	Al	0.02	0.02	0.02	
	Si	0.15	0.20	0.20	
	Na	0.01	0.01	0.01	
Fisherparticlesize Fsss(um)		1.5	1.5-4.0	1.5-4.0	

Formula :VC

Relative atomic weight: 62.95

CAS NO. : 12070-10-9

Density: 5.41g/cm³

Melting point: 2800℃

Boiling point: 3900℃

Appearance: ash black metallic powder, belongs to crystal of NaCl cubic system, lattice parameter is 4.182 , it has good chemical stability and high-temperature behavior.

Application: It is mainly used in making vanadium steel, cutting tools, and grain refiner in steel industry and the tungsten carbide, it can improve the performance of

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Email Address: trade@zgmy.net; cabinnature@gmail.com

Instant Message: QQ: 1537321489;Skype : castle8009

Tel: +86-731-84775381 ex 81

MP: +86-18974905158

Partner Factory: Liuyang City Asian Light Advanced Material Co.,Ltd.; Changsha Asian Light Metal&Chemical Co.,Ltd.



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Changsha Asian Light Economic Trade Co.,Ltd.

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the alloy well. Vanadium mono-carbide apply in the field of hard film, target, welding material, tungsten carbide, metal ceramic, aerospace etc.

9. Vanadium Dioxide

We can produce and sell vanadium dioxide

Vanadium dioxide is an iron oxide with phase change nature, and its phase transition temperature is 68 °C.

Alias: vanadium oxide, vanadium tetra-oxide

Formula: VO₂,V₂O₄

Appearance: Prussian blue crystalline powder, monoclinic system structure

Density: 4.260g/cm³

Melting point: 1545°C, insoluble in water, soluble in acid and alkali

Application: It's used as colorant of glass and ceramics.

10. Vanadium Trioxide

Vanadium trioxide(V₂O₃)is a high-purity product used in a variety of applications,including chemical and environmental catalysts,gas processing,coloring compounds,batteries,dye fixants,and vitamins.It is produced under an ISO9001:2008-certified Quality Management System.

MF:V₂O₃

CAS No.:1314-34-7

Class:oxide

Physical Properties

Colour:Black

Appearance:Powder

Melting Point:1970°C

Density:4870 Kg/m³

Chemistry

GRADES	TECHICAL
Vanadium(as V ₂ O ₅)	119.5%min
Iron	0.03%max
Molybdenum	0.05%max

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Potassium	0.015%max*
Sodium	0.02%max*
Silicon	0.01%max

*Na@O+K2O are equal to or less than 0.045%

Gallium Product

1. Gallium Metal

1. Our company supply and sell gallium metal 99.99%, 99.999%, 99.9999% and 99.99999%. Quality is good and price is competitive.

Gallium Metal

Brand No.					
Purity Grade		99.99999%	99.9999%	99.999%	99.99%
Impurity content (ppm, max)	Cu	0.002	0.05	1.5	5
	Pb	0.005	0.06	1.8	12
	Zn	0.02	0.1	0.4	1
	Al	-	-	0.1	3
	In	-	-	0.5	2
	Ca	-	-	0.1	2
	Fe	0.01	0.1	0.8	5
	Sn	0.005	0.1	0.8	5
	Ni	-	0.05	0.1	1
	Si	0.05	0.2	1.0	-
	Hg	-	-	0.8	-
	Mg	0.005	0.1	0.6	-
	Mn	0.08	0.05		
Cr	-	0.2			

Application: liquid product is silver-white metal, and solid-state product is in blue-white. Its surface has a metallic lustre. Mainly used as raw material of preparing semiconductor compounds materials, such as gallium arsenide, gallium phosphide,

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gallium antimonide, and gallium oxide and high-purity alloy products. It also can be used as doping element in germanium and silicon semiconductors.

2.Gallium Oxide

Our factory can manufacture gallium oxide in good quality.

Alias:Digalliumtrioxide;Gallia;Gallium oxide;Gallium oxide (2:3);Gallium sesquioxide;Gallium trioxide;Gallium(3+) oxide

CAS No.:12024-21-4

EINECS No.:234-691-7

Gallium oxide 99.99%

Gallium oxide 99.999%

Gallium oxide 99.9999%

Physical properties:

Formula: Ga₂O₃

Molecular weight: 187.44

Appearance: white crystal powder

Application: Gallium oxide is a kind of broadband semiconductor, a transparent semiconductor material. It has broad prospects for application in the optoelectronic industry. It has been used in the insulating layer of Ga-based semiconductor materials and ultraviolet filters. It can also be used as chemical probes for O₂.

3.Gallium Trichloride

Our company can supply gallium chloride(Gallium(III) chloride,gallium trichloride) with purity 99.99% and 99.999%. Welcome to contact us!

GaCl ₃	99.99%	99.9999%
Al	3ppm	<1ppm
Ca	1ppm	<1ppm
Cr	1ppm	<1ppm
Co	3ppm	<1ppm
Fe	4ppm	<1ppm
Ge	<2ppm	<1ppm
In	<5ppm	<1ppm

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Mg	2ppm	<1ppm
Na	8ppm	<5ppm
Ni	<1ppm	<1ppm
Si	<5ppm	<5ppm
Sn	12ppm	<5ppm
Zn	8ppm	<3ppm

CAS:13450-90-3

Appearance: white crystal(dissolve in water)

Alias:Gallium(III) chloride;Gallium trichloride;gallium chloride;gallium chloride;gallium chloride;gallium chloride [qr];gallium chlorid

4.Gallium Nitrate

We can produce Gallium nitrate in 99.99%

gallium nitrate , gallium trinitrate, gallium salt of nitric acid, gallium nitrate hydrate

Our company can supply gallium nitrate in competitive price.

And quality will be to your satisfy.

Other names: gallium nitrate , gallium trinitrate, gallium salt of nitric acid, gallium nitrate hydrate

Ga(NO₃)₃, gallium nitrate anhydrate 99.99% CAS No.:13494-90-1

Gallium nitrate hydrate Ga(NO₃)₃.9H₂O, Ga(NO₃)₃.8H₂O, Ga(NO₃)₃.4H₂O
CAS NO.: 69365-72-6.

is a white, slightly hygroscopic, crystalline powder of molecular weight 417.87, 399.85 and 327.79 .that is readily soluble in water.

Molecular weight: 255.75

Melting point: 110 celsius(Decomposition)

Boiling point: 200 celsius(Decomposition)

Appearance: white crystal powder

Usage: It is a drug used to treat symptomatic hypercalcemia secondary to cancer. It works by preventing the breakdown of bone through the inhibition of osteoclast

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activity, thus lowering the amount of free calcium in the blood. Gallium nitrate is also used to synthesize other gallium compounds. GaN powder was prepared by heating gallium nitrate salt in flowing ammonia to a high temperature that range between 500-1050 celsius.

Germanium Product

1. Germanium Dioxide

Our company can supply High Purity Germanium Dioxide(GeO₂)99.999%-99.9999%

6N High Purity Germanium Dioxide(GeO₂) 6N

Chemical Composition

Product name	GeO ₂	Purity Grade	≥99.9999%(min)
Standard	GB/T11069-2006	Total impurity	1.0 × 10 ⁻⁴
Impurity content(≤, %)			
As	1.0 × 10 ⁻⁵	Fe	1.0 × 10 ⁻⁵
Cu	1.0 × 10 ⁻⁶	Ni	2.0 × 10 ⁻⁶
Pb	2.0 × 10 ⁻⁶	Ca	1.5 × 10 ⁻⁵
Mg	1.0 × 10 ⁻⁵	Si	2.0 × 10 ⁻⁶
Co	2.0 × 10 ⁻⁶	In	1.0 × 10 ⁻⁶
Zn	1.5 × 10 ⁻⁵	Al	1.0 × 10 ⁻⁶

5N High Purity Germanium Dioxide(GeO₂)

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Chemical Composition

Product name	GeO ₂	Purity Grade	≥99.999%(min)
Standard	GB/T11069-2006	Total impurity	1.0 × 10 ⁻³
Impurity content(≤, %)			
As	5.0 × 10 ⁻⁵	Fe	1.0 × 10 ⁻⁴
Cu	2.0 × 10 ⁻⁵	Ni	2.0 × 10 ⁻⁵
Pb	1.0 × 10 ⁻⁵	Ca	-----
Mg	-----	Si	-----
Co	2.0 × 10 ⁻⁵	In	-----
Zn	-----	Al	1.0 × 10 ⁻⁴

Main application: raw material of high-purity germanium metal, High purity germanium dioxide is used in Germanium compounds, chemical catalyst and medical industries. Our 6N germanium dioxide is well used in PET catalyst and BGO crystal application.

Packaging: The product is packaged in a PVC container, the net weight of every container is about 1 kg, and the PVC is packed in a cardboard segregated box. Every box contains a net weight of about 20kg

Physical and chemical properties: Germanium dioxide is a white powdery substance, it has three forms it can have four edges, hexagonal or a polygon. Its melting point is 1115 celsius, at 1250 celsius the germanium dioxide is volatile and is easily dissolved with hydrochloric acid.

Transportation and storage: High purity germanium dioxide should be transported and stored in a dry and non-corrosive environment.

2. Zone-Refined Germanium Ingot

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Our company can supply Zone-refined Germanium Ingots (Ge)

Product: Zone-refined germanium ingots

Standard: GB/T11071-2006

Electrical Properties:

Grade	Resistivity $\Omega\cdot\text{cm}$ (20+/-0.5 $^{\circ}\text{C}$)	Mono-crystal Test figures (77K)	
		Current carrier cm^{-3}	Current transfer $\text{cm}^2/(\text{v}\cdot\text{s})$
ZGe—1	≥ 50	$\leq 1.5 \times 10^{12}$	$\geq 3.7 \times 10^4$
ZGe—2	≥ 50	—	—

1.Main Application: Used to produce various types of germanium mono-crystalline materials.

2.Packaging: Melt germanium ingots cross-section is shaped as a trapezium, top width $\geq 26\text{mm}$,bottom width $\geq 21\text{mm}$, thickness $\geq 23\text{mm}$ and length is between 100—500mm.Every ingot is vacuum sealed in a PVC layer bag, placed in a polystyrene box and then packaged in a wooden crate which is bound by steel cables. The net weight of each box is about 25kg.

3.Physical and chemical properties: Metallic Germanium is hard and brittle and has a silvery ash luster, atomic weight is 72.59,and density is $5.325\text{g}/\text{cm}^3$,melting point at 937.4 celsius and boiling point at 2800 celsius.

4.Transportation,storage and application

When delivering and storing melted Germanium ingots, it is important to protect the ingots from machining damage, humid and corrosive environments.

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3.Organic Germanium

Our company can supply Organic Germanium (Ge-132)

Commodity: Organic Germanium (Ge-132)

The Analysis Result:

1.Content:Ge-132 99.8%

Ge	42.78%	Pb(mg/kg) 0.02 max
As(mg/kg)	0.03max	Cd(mg/kg) 0.02 max
Cu(mg/kg)	0.24max	Hg(mg/kg) 0.01 max
PH=	2.6	

2.Animalcule

Bacilli Amoun(Entities/g)

Result: less than10

Colifovm Amount(Entities/100g)

Result: less than30

Nosogenesis Bacilli

Result: Can not examine

3 . Ge-132

Character: White crystallize powder

Loss on drying (2 hr 120): less than 0.3%

Density: less than 1.28 G/CM3

Particle size:95% min pass 200 mesh

Solubility-water 20g/L approximate(60 centigrade)

2. The Use of organic germanium: The best additive of health food, Medicine and cosmetics

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4.Germanium Powder

Our company can supply germanium powder(Zone-refined germanium powder/germanium metal powder/melt germanium powder).

We can process germanium powder(Zone refined germanium powder/germanium metal powder/melt germanium powder) according to customer's requests.

Purity: 99.999%

Particle size: 100mesh-400mesh

Zirconium Powder

CAS No.:7740-67-7

EINECS No.:231-176-9

Molecular Formula: Zr

Purity: 99%

Particle size: 80mesh,100mesh,200mesh,325mesh

Package: 1kg/bottle

Thallium Metal

ALias:Thallium,Thallium element

Purity:99.99%

CAS No.:7440-28-0

EINECS No.:231-138-1

MF:Tl

Molecular Weight:204.3833

Melting Point:302 celsius

Boiling Point:1457 celsius

Inchi:InChI=1S/Tl

Density:1.01 g/mL at 25 celsius

UN No.:UN3288 6.1/PG 2

Safety Instruction: Human poison by unspecified route. Human systemic effects by ingestion: nerve or sheath structural changes, extra-ocular muscle changes, sweating, and other effects. Flammable in the form of dust when exposed to heat or flame. Violent reaction with F2. When heated to decomposition it emits toxic fumes of Tl. Used as a rodenticide and fungicide, and in

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lenses and prisms, in high-density liquids. See also THALLIUM COMPOUNDS and POWDERED METALS.Analytical Methods: For occupational chemical analysis use NIOSH: Elements (ICP) 7300.

Packing Group:II

Risk Group:6.1

Uses:System for photoelectric tubes, industrial low temperature meter, optical glass, for purification, the manufacture of alloys, chemical reagents, instrumentation and semiconductor doping

Tellurium Product

1.Tellurium

A.We supply tellurium metal ingot of different purities.

Appearance: lustrous silvery gray

Melting point:449.51 celsius

CAS No.:13494-80-9

EINECS No.:236-813-4

Specifications:

A1.3N-4N

Product	Tellurium ingot	Purity grade	Te≥99.9%
B&D No.	Te-1	Impurity	0.1%
Impurity content≤ (%)			
Cu	0.003	Pb	0.004
Al	0.003	Bi	0.002
Fe	0.004	Na	0.006
Si	0.002	S	0.005
Mg	0.002	Se	0.005
As	0.001		

Product	Tellurium ingot	Purity grade	Te≥99.99%
B&D No.	Te-1	Impurity	0.01%
Impurity content≤ (%)			
Cu	0.001	Pb	0.002
Al	0.009	Bi	0.009
Fe	0.009	Na	0.003

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Si	0.001	S	0.001
Mg	0.0009	Se	0.001
As	0.0005		

Application: mostly used for semiconductor devices, alloy, chemical raw materials and cast iron, rubber, glass, and other industrial additives.

Appearance: silver or gray ingot. Clear on the surface, no visible inclusion.

A2.5N-7N

high purity tellurium

specification: tellurium > 99.999%, total impurities < 10 ppm.

tellurium > 99.9999%, total impurities < 1 ppm

tellurium > 99.99999%, total impurities < 0.1 ppm.

The chemical composition complies with YS43-1992

Trademark	Chemical composition														
	Te ≥, %	Impurities, ≤ ppm													
		Si	Se	Mg	Ni	Pb	Fe	Al	Cd	Ag	Sn	Cu	Zn	Ca	Sum
Te-05	99.999	1.0	1.0	0.5	0.5	0.4	0.2	0.2	0.2	0.2	0.2	--	--	10	
Te-06	99.9999	--	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.01	--	0.01	0.1	0.1	1
Te-07	99.99999	--	0.01	0.005	0.005	0.005	0.01	0.005	0.005	0.001	--	0.001	0.002	0.001	0.1

application :Mainly apply to fabrication of II-VI group compound semiconductors, solar cell, thermoelectric converting elements, semiconductor refrigerator, gas sensor, temperature sensor, pressure sensor, photosensitizer, piezoelectric crystal, nuclear radiation probing and infrared detector etc.

Product appearance: block, ingot or powder.

Physical property : Atomic weight: 126.70; electronegativity:2.01,density: 6.25 g/cm³; melting point: 449.5 celsius ; boiling point: 989.8 celsius; black, friable.

Package: 2.5kg/bag,vacuum sealed by polyethylene film or glass tube.

2.Tellurium Granule

We supply Tellurium granule of 3N and 4N

Appearance: lustrous silvery gray

Melting point:449.51 celsius degree

CAS No.:13494-80-9

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EINECS No.:236-813-4

1.Tellurium granule(Tellurium metal granule,Tellurium shot):Te 99.9%

Size: 1.0-1.5mm(As requested)

Packing:2.5kgs in plastic bag , then 10-20kgs in carton box.

Main Use:Metallurgy Grade for steel industry , the 4N purity usually refer to 99.9%-99.95%

2. Tellurium granule(Tellurium metal granule, Tellurium shot):99.99%

Cu5ppm,Ag5ppm,Mg5ppm,Ni5ppm,Zn5ppm,Fe10ppm,Cd2ppm,Si10ppm,Al8ppm,Se 15ppm,Pb10ppm,Sn3ppm,

Size: 0.5-1.5mm (As requested)

Packing: 2.5kgs in plastic bag , then 10-20kgs in carton box.

Semiconductor Grade for cooling and semi compounds industry, 4N purity refers to 99.99%min ,

Main Use: Metallurgy Grade for steel industry , the 4N purity usually refer to 99.9%-99.95%

It is typically specialized in thermal analysis for Metallurgy foundry industry.

3.Tellurium Powder

We are specializing in producing Tellurium metal powder with different particle size We can produce tellurium powder according to customer's requirements.

Purity: 99.9% 99.99%

Granularity:100mesh 200 mesh 325 mesh 450 mesh

CAS No.:13494-80-9

EINESE No.:236-813-4

Appearance: ash-black powder; silver or gray powder.

Product	Tellurium ingot	Purity grade	Te≥99.8%
B&D No.	Te-1	Partial size	200mesh
Impurity content≤ (%)			
Cu	0.003	Pb	0.004
Al	0.003	Bi	0.002
Fe	0.007	Na	0.006
Si	0.09	S	0.005
Mg	0.002	Se	0.005
As	0.001		

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	Tellurium Powder	Purity grade	Te≥99.99%
B&D No.	Te	Impurity	0.01%
Impurity content≤ (%)			
Cu	0.001	Pb	0.002
Al	0.009	Bi	0.009
Fe	0.009	Na	0.003
Si	0.001	S	0.001
Mg	0.0009	Se	0.001
As	0.0005		

Application: It is mainly used in making II-VI semiconductor compounds, solar cells, Thermoelectric conversion element, refrigeration components, air sensitive, heat sensitive, light sensitive, piezoelectric crystal, nuclear radiation detective and infrared detector etc.(the national standard usage); mostly used for semiconductor devices, alloy, chemical raw materials and cast iron, rubber, glass, and other industrial additives.

4.Tellurium Dioxide

Tellurium oxide (Tellurium Dioxide) is white crystalline powder, CAS No. is 7446-07-3, with melting point 733celsius and specific gravity 5.67 g/cm³. It's practically insoluble in water. It is commonly used in material for electronic elements, anti-corrosive agent and tellurium dioxide crystal (TeO₂) for acousto-optical devices features with high optical homogeneity, low light absorption and scattering.

Appearance: white solid

Density: 5.670 g/cm³

Melting point: 733 centigrade

Packing: 1 kg/bottled

Specifications:

a. TeO₂ (99.9%)

Fe: 0.001% Bi: 0.001% Pb: 0.02%

Cu: 0.001% Zn: 0.001% As: 0.02%

Item	Standard specification	
TeO ₂	99.99%	99.999%
Impurity	Cu/Fe/As/Si/Mg ≤10 each	Au/Al/Pb/Fe ≤0.5ppm each

[Http://www.zgmy.net](http://www.zgmy.net)

Email Address: trade@zgmy.net; cabinnature@gmail.com

Instant Message: QQ: 1537321489; Skype : castle8009

Tel: +86-731-84775381 ex 81

MP: +86-18974905158

Partner Factory: Liuyang City Asian Light Advanced Material Co.,Ltd.; Changsha Asian Light Metal&Chemical Co.,Ltd.



长沙亚光经贸有限公司

Changsha Asian Light Economic Trade Co.,Ltd.

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Add: D3-106RM of New Century Home,Wanjiali Middle Road.Changsha.China

(ppm)	Pb/Se ≤20 each	Cd≤1.0
Application	Thermistor and varister	In thermistor
Packing	In polyethylene bottle with sealed plastic bag outside.	
Others	99% and 99.9% purity grade are available upon requested.	

Application: It is primarily used in the manufacture of compound TeO₂ single crystal, material for electronic elements and anticorrosive agent etc.

5. Lead Telluride

We can supply PbTe with purity 99.99% and 99.999%

Alias: telluroxo-lambda~2~-plumbane; Lead(II) telluride

Appearance: gray cubic crystal, lump or powder

CAS No.: 1314-91-6

EINECS: 215-247-1

Chemical formula: PbTe

Molecule weight: 334.79

InChI: InChI=1/Pb.Te/rPbTe/c1-2

Application: It has the property of semiconducting, used as infrared exploration devices and thermoelectric refrigeration material.

6. Cadmium Telluride

We sell solar cell grade and detector grade high purity CdTe

1. Physical properties

Molecule weight: 240.011

Density: 5.7668 g/cm³

Melting point: 1042 centigrade

Electrical conductivity: 10.6n-1.cm-1

CAS NO: 1306-25-8

EC NO: 215-149-9

Chemical formula: CdTe

2. Specification

Purity: 99.99%, 99.999%, 99.9999%

3. Appearance

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Dark Lump, powder

4. Usage: It is mainly used in solar cells, infrared modulators, HgxCd1-xTe underlay, infrared electroluminescence, electric eye, infrared detectors, X-ray, detectors, nuclear radioactivity detectors, approach visible light radiation etc.

5. Packaging

Sealed in vacuum composite foil bag

InChI:InChI=1/Cd.Te/rCdTe/c1-2

7.Indium Telluride

We sell InTe and high purity In₂Te₃

CAS No.:1312-45-4

3. Physical property:

Molecule weight: 242.41

Threadiness, fragile, silvery-gray when hot, deep blue when cold

Melting point:496 centigrade

Density: 6.99 g/cm³

Tetrahedral structure

4. Specification:

Purity: InTe99.999%min

Impurity content: Ag, Al, Gd, Cu, Fe, Mg, Ni, Pb, total content less than 10ppm

5. Form: lump or powder

6. Application:it is mainly used as semiconductor, optical material, sensing device and evaporation material

8.Tellurium Tetrachloride

Tellurium tetrachloride show white crystal, which easy to deliquesce, showing yellow in liquid state, orange in steam state. It is dissolved into tellurium dioxide and hydrochloric acid.

Alias: tellurium(IV) chloride; tellurium(IV) chloride telluric chloride

MF: TeCl₄

Molecular Weight:269.41

CAS No.:10026-07-0

EINECS No.:233-055-6

Property: white crystal

Density:2.95g/ml under 25 celsius degree

Storage: sealed and stored under dry condition.

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Application: used in synthesis of tellurium organic compound, usually for lab use.

Selenium Product

1. Selenium Dioxide

Selenium dioxide (selenious acid anhydride, Selenious anhydride, SeO_2): 98%-99%,

CAS No.: 7446-08-4

EINECS No.: 231-194-7

Molecular formula: SeO_2

Molar mass: 110.96 g/mol

Appearance White crystalline solid

Density 3.95 g/cm³, solid

Boiling point 315 °C sublimes

Uses: used as catalyst, the oxidant, chemical reagent, electroplating, metal surface treatment, EMD additive, etc.

2. Sodium Selenite

We sell Sodium selenite 98%, Used as Feed additives etc.

CAS No.: 10102-18-8

EINECS No.: 10102-18-8

Selenite (Na_2SeO_3) in (dry)% : 98.1 min

Selenite (Se) in (dry)%: 44.74

Dry reduction test% 1.0 max

Dissolution test: all dissolved, Clear and transparent

Commodity: Sodium Selenite	Sample No.: 20080712
Quantity:	Weight:
Content of Analysis	Results of Analysis
Selenite (Na_2SeO_3) in (dry)% min	98.1
Selenite (Se) in (dry)% max	44.74
Cd% max	0.0001

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As%	max	0.0001
Pb%	max	0.0001
Dry reduction test%	max	1.0
Solubilit test		All dissolved, clear transparent
content of selenium and sulphate%	max	0.3

3.Selenious Acid

We sell Selenious Acid(H_2SeO_3) 98%

Selenious Acid H_2SeO_3 98% Min 60.4% Min

FORMULA: H_2SeO_3

MOLECULAR WEIGHT: 128.97

CAS No.: 7783-00-8

EINECS NO.:231-974-7

CHARACTERISTIC: Colorless hygroscopic crystal powder. has deliquescence, soluble in water and ethanol.

USAGE: Used for chemical reagent, reducing agent etc. As activator used for plating industry.

PACKING: Net 25kg fiber or iron drum.

4.Selenium Sulfide

Selenium sulfide is a kind of antifungal reagent, present orange to reddish brown powder, which smell light hydrogen sulfide.

CAS No.:7488-56-4

EINECS No.:231-303-8

MF: SeS_2

Content:

Formula	Concentration(%)
O	5.38
Na	1.91
Mg	0.512

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Si	0.025
S	38.9
Fe	0.016
Cu	0.0173
Se	53.21
Hg	0.028

Application: it hold property of antifungal and resisting seborrhea,which could cure tinea versicolor,seborrhea of head,scurf and multicolor pityriasis. raw material for antidandruff shampoo and skin care cream.the density in cosmetic is 20%max.Preparation is suspending agent.

Storage: stocked in shady,cool and ventilated warehouse,prevent shining under sun. Away from fire, heat source. Sealed package.it would away from oxide,food chemical,ban mixed storage.there should collecting container in case of leak.

5.Sodium Acetate

Sodium acetate trihydrate is colorless and tasteless crystal, stable under room temperature, which could be weathered in air.

Alias: acetic acid, sodium salt trihydrate

MF: C₂H₃NaO₂.3H₂O

Molecular Weight: 136.08

CAS No.: 6131-90-4

EINECS No.:204-823-8

Property: colorless crystal or white solid

Density(g/mL,20celsuis): 1.45

Uses: 1.used in dyeing, pharmacy, photograph, etc.; also used as esterifying agent and anticorrosive agent.

2.used as analytical reagent, like formulating buffer solution. also used as mordant and in synthetize of dyestuff, formulating acetic oxide

Bismuth Product

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1. Bismuth

Our company can supply bismuth metal ingot(pure bismuth) 99.95-99.997%.

Phase: solid

Density (near r.t.): 9.78 g·cm⁻³

Liquid density at m.p.: 10.05 g·cm⁻³

Melting point: 544.7 K(271.5 °C, 520.7 °F)

Boiling point: 1837 K(1564 °C, 2847 °F)

Heat of fusion: 11.30 kJ·mol⁻¹

Heat of vaporization: 151 kJ·mol⁻¹

Specific heat capacity: (25 °C) 25.52 J·mol⁻¹·K⁻¹

packing:in wooden cases of 1000kgs net

el Cotent	Mod	Bi99.997 (%)	Bi99.99 (%)	Bi99.95 (%)
Bi min		99.997	99.99	99.95
Cu max		0.003	0.001	0.003
Pb max		0.0007	0.001	0.010
Zn max		0.0001	0.0005	0.005
Fe max		0.0005	0.001	0.001
Ag max		0.0005	0.004	0.020
As max		0.0005	0.0003	0.001
Te max			0.0003	0.001
Sb max		0.0003	0.0005	0.002
Cl max			0.0015	0.005
Sn max		0.0002		
Cd max		0.0001		
Hg max		0.0005		
Ni max		0.0005		

2. Bismuth Powder

Our company can produce bismuth powder at different particle size according to customer's requests.

Bismuth powder: 99%-99.99% 80 mesh

Bismuth powder: 99%-99.99%100 mesh

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Bismuth powder: 99%-99.99% 150 mesh

Bismuth powder: 99%-99.99%200 mesh

Bismuth powder: 99%-99.99% 320 mesh

Bismuth powder: 99%-99.99% 450 mesh

Bismuth powder:99%-99.99% 500 mesh

Packaging :1-2kg / vacuum packaging, 20 kilogram/drum

Application: used in making Bi alloy, welding material and catalyst etc.

3. Bismuth Needle

We produce and sell bismuth metal needle

Mod el Content	Bi99.99 (%)	Bi99.95 (%)
Bi min	99.99	99.95
Cu max	0.001	0.003
Pb max	0.001	0.010
Zn max	0.0005	0.005
Fe max	0.001	0.001
Ag max	0.004	0.020
As max	0.0003	0.001
Te max	0.0003	0.001
Sb max	0.0005	0.002
Cl max	0.0015	0.005
Sn max		
Cd max		
Hg max		
Ni max		

Application: it is widely used in semiconductor, superconductor, fire retardant, pigment, cosmetics, chemical reagent, electronic ceramics, metallurgy, pharmaceuticals etc.

Melting point: 271.3 centigrade

Boiling point: 1560±5 centigrade

Density: 9.8 gram/cm³

Physical property: Silvery white with a metal gloss, rectangle or trapezium

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Packing: metric ton/wood case

Usage: In medicine, chemical industry, metallurgy, alloy additive and low melting point alloy and so on

4. Bismuth Granule

We produce and sell bismuth granule

el Content \ Mod	Bi99.99 (%)	Bi99.95 (%)
Bi min	99.99	99.95
Cu max	0.001	0.003
Pb max	0.001	0.010
Zn max	0.0005	0.005
Fe max	0.001	0.001
Ag max	0.004	0.020
As max	0.0003	0.001
Te max	0.0003	0.001
Sb max	0.0005	0.002
Cl max	0.0015	0.005
Sn max		
Cd max		
Hg max		
Ni max		

Application: it is widely used in semiconductor, superconductor, fire retardant, pigment, cosmetics, chemical reagent, electronic ceramic, metallurgy, pharmaceuticals etc. And it can be also used as hunting marbles.

5. Bismuth Trioxide

Our factory can produce Bismuth Trioxide in good quality.(Bi₂O₃ ,Bismuth oxide)

Molecular formula: Bi₂O₃

Molar mass: 465.96 g/mol Bi=89.70%, O=10.30%

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Add: D3-106RM of New Century Home,Wanjiali Middle Road.Changsha.China

Appearance: yellow crystals or powder

Density: 8.9 g/cm³, solid

Melting point: 824°C

Boiling point: 1890°C

Solubility in other solvents: Insoluble

Bismuth trioxide is commonly used to produce the "Dragon's eggs" effect in fireworks, as a replacement of red lead.

Bismuth oxide has been used in ointments for ano-rectal disorders.

Other uses: Used in condensator construction, in disinfectants, magnets, glass, rubber vulcanisation, in fireproofing of papers and polymers and also used in catalysis.

Characteristic: yellow heavy powder, dissolves in acids but not in water. The color will turn to salmon pink when heating, melting point 825°C.

Application: Used for voltage dependent resistor, zinc oxide arrester, porcelain capacitor, electronic components as video tube, glass envelop, bismuth series medicine material, and manufacturing for ceramic pigmentation and special glass.

Purity: Bi₂O₃ 99.95%

Molecular formula:Bi₂O₃

CAS No.:1304-76-3;12640-40-3

EINECS No.:215-134-7;235-736-3

Properties: light yellow powder, odorless, heating becomes brown red, becomes yellow after cooling,

Solubility: Soluble in acid, insoluble in water

Uses: mainly used in chemical reagents, bismuth salt manufacture, glass coloring, varistors, thermistors, lightning arrester, kinescope, fire paper, nuclear reactor fuel, electronic ceramic powder materials, electrolyte materials, optical materials, high-temperature superconducting materials, catalyst, reduced to fine bismuth and so on.

Product name	Pyrogenic process B ₂ O ₃ β (orange yellow)			
specification	Electronic grade 2um			
	items	index		Results of analysis
		JWβ- I	JWB- II	

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(Bi ₂ O ₃) % ≥	99.90	99.85	99.9874
(Li) % ≤	0.0001	0.0005	0.0001
(Na) % ≤	0.003	0.005	0.0004
(K) % ≤	0.001	0.003	0.0001
(Ca) % ≤	0.001	0.003	0.0003
(Mg) % ≤	0.0005	0.0007	0.0001
(Al) % ≤	0.001	0.002	0.0001
(Si) % ≤	0.002	0.005	0.0004
(As) % ≤	0.001	0.002	0.0002
(Cd) % ≤	0.0005	0.0005	0.0001
(Fe) % ≤	0.0005	0.001	0.0002
(Sn) % ≤	0.0005	0.0005	0.0001
(Cr) % ≤	0.0005	0.0008	0.0001
(Ni) % ≤	0.0005	0.0005	0.0002
(Cu) % ≤	0.0005	0.0008	0.0004
(Pb) % ≤	0.0005	0.0008	0.000400
(Ag) % ≤	0.0005	0.001	0.0002
(Sb) % ≤	0.0005	0.0008	0.0005
(Cl) % ≤	0.001	0.0015	0.0010

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(SO) % ≤	0.001	0.0015	0.0004
Loss on drying % ≤	0.1	0.1	0.3140
Insoluble in nitric acid % ≤	0.05	0.05	0.00760
The batch product met the requirements of JWβ- I			

Orange yellow Bi₂O₃ is mainly used in coating, battery, magnetic material etc

Product name	Roast Bi ₂ O ₃ a (light yellow)		
specification	Eletronic grade 2um		
items	index		Results of analysis
	JWβ- I	JWβ- II	
(Bi ₂ O ₃) % ≥	99.90	99.80	99.9899
(Li) % ≤	0.0005	0.001	0.0001
(Na) % ≤	0.003	0.005	0.0005
(K) % ≤	0.001	0.003	0.0001
(Ca) % ≤	0.001	0.003	0.0003
(Mg) % ≤	0.0005	0.0007	0.0001
(Al) % ≤	0.001	0.003	0.0002
(Si) % ≤	0.002	0.005	0.0003
(As) % ≤	0.001	0.002	0.0002
(Cd) % ≤	0.0005	0.0005	0.0001
(Fe) % ≤	0.001	0.003	0.0004

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(Sn)	%	≤	0.0005	0.0005	0.0002
(Cr)	%	≤	0.0005	0.001	0.0001
(Ni)	%	≤	0.0005	0.0005	0.0002
(Cu)	%	≤	0.0005	0.002	0.0001
(Pb)	%	≤	0.0005	0.0010	0.0005
(Ag)	%	≤	0.0005	0.001	0.000600
(Sb)	%	≤	0.0005	0.0008	0.0002
(Cl)	%	≤	0.001	0.001	0.0004
(SO)	%	≤	0.001	0.0015	0.0010
Loss on ignition	%				
≤			0.3	0.5	0.0113
Insolubles in nitric acid	%				
≤			.05	0.05	0.00450
The batch product met the requirements of JWβ- I					

Light yellow bi2o3 is mainly used in capacitor, fireworks, coating etc

Rhodium Powder

Purity: 99.97%

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