



**RARE EARTH METAL  
& SALTS**



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## **CDH** at a glance...

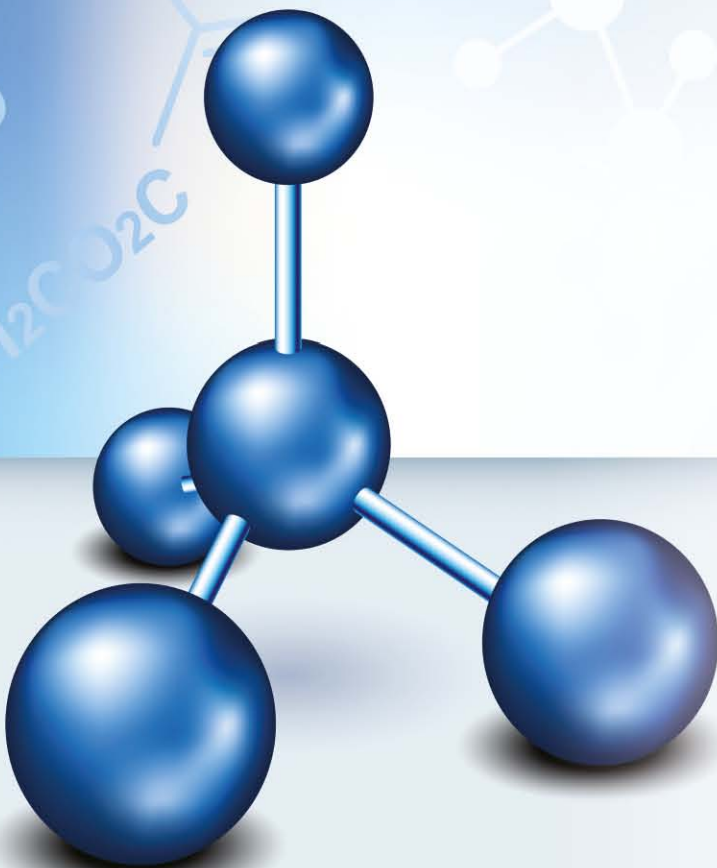
- Rich experience of more than 35 years
- Highly qualified and experienced team
- Professional management
- ISO 9001:2008
- ISO 14001:2004
- OHSAS 18001:2007
- WHO GMP CERTIFIED

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# RARE EARTH METAL & SALTS

**CDH** a pioneer producer of Laboratory Fine Chemical in India Since 1981. CDH always keep enhancing product range and with the growing demand and repeated requests by our customers we are pleased to introduce a series of Rare Earth metals and their salts These products are available in various purities from 99% to 99.999% of individual and co-precipitated Rare Earth chemicals, including Oxides, Acetates, Chloride, Carbonates, Hydroxides, Fluorides, Nitrates, Oxalates, totally covered 90% of Rare Earth products, applied widely in manufacturing phosphors, advanced ceramics, pigments, glass, glazes, laser crystals, Rare Earth doped fibers.



## Classification of Products by industry

### Catalyst

Rare Earth catalyst can raise gasoline production by 5% and increase the capacity of the cracking equipment by 20-30%. Rare earth can also be employed in paints drier and thermal stabilizer for plastics and so on.

Related mostly Rare Earth elements: **Lanthanum, Cerium**

### Ceremics

Ceramic powders are necessary ingredients in most engineering ceramics, electronic ceramics and ceramic coatings. With telecommunications being one of the largest ceramic industries, dielectric resonators, ceramic filters and multi-layer capacitors are continually being developed to increase performance. Y2O3 stabilized ZrO2, Nd2O3, La2O3 and Y2O3 are used to make different kinds of advanced ceramics.

Related mostly Rare Earth elements: **Scandium, Yttrium, Lanthanum, Cerium, Praseodymium, Neodymium, Samarium, Gadolinium, Ytterbium**

### Electronics

Recent years, technological innovations, especially increasing demand on smart electronics and devices, like iPhone and iPad, resulted in manifold applications using Rare Earths which lead to a steep increase in their demand.

Related mostly Rare Earth elements: **Yttrium, Lanthanum, Neodymium, Samarium, Terbium, Dysprosium**

### Energy

In energy application, Rare Earth are advantageous because of their relatively low toxicity. Rechargeable lanthanum-nickel-hydride (La-Ni-H) batteries are replacing Ni-Cd batteries in automobiles.

Related mostly Rare Earth elements: **Lanthanum, Cerium, Neodymium, Terbium, Dysprosium**

### Glass

Cerium compounds widely used in glass additives and glass-polishing compounds, while Lanthanum doped or Erbium optical glass features high refraction and low dispersion, can efficiently simplify optical system, expand visual angle and minimize lens.

Related mostly Rare Earth elements: **Rare Earths, Yttrium, Lanthanum, Cerium, Europium, Holmium, Erbium, Lutetium**

### Magnetism

Neodymium-iron-boron (NdFeB) magnets are the most powerful permanent magnets available today, has a combination of very high remanence and coercivity, and comes with a wide range of grades, sizes and shapes. Recently years, Dysprosium and Terbium are doped to achieve better performance.

Related mostly Rare Earth elements: **Praseodymium, Neodymium, Gadolinium, Terbium, Dysprosium**

### Medicine

Many of the frequently used contrast agents for MRI (Magnetic Resonance Imaging) are based on the Gadolinium, which is paramagnetic. As advances in areas such as nanotechnology continue to be made, new areas of application for Rare Earths in medicine are sure to open up with their unique properties to be applied to the diagnosis and treatment of medical conditions.

Related mostly Rare Earth elements: **Yttrium, Lanthanum, Gadolinium**

### Metallurgy

The Rare Earth ferrosilicon is widely used in metallurgy as the inoculant, nodulizer and deoxidizer to improve the temperature of the molten steel. In recent years, more and more pure Rare Earth metals are applied into manufacturing high performance alloy and superalloys.

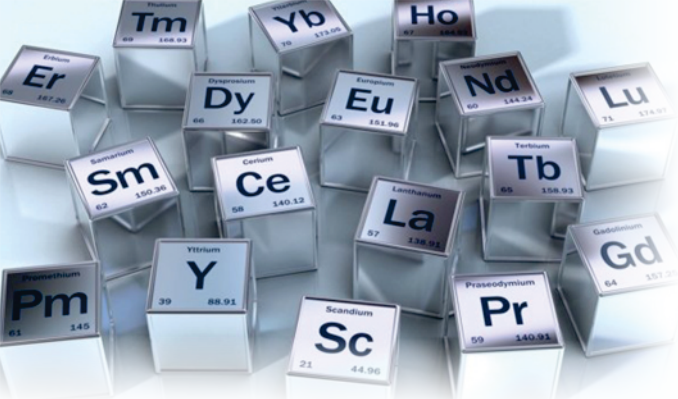
Related mostly Rare Earth elements: **Yttrium, Lanthanum, Cerium, Praseodymium, Neodymium, Gadolinium, Terbium, Dysprosium**

### Optical

Super pure Rare Earths are widely as dopants in high-concentration optical fibers, With the development of low-loss fibers and the availability of laser pump sources, there has been a renewed interest in rare earth doped glasses in fiber form. High purity grades are also the most important dopants for laser crystals, lens, and optical systems.

Related mostly Rare Earth elements: **Yttrium, Lanthanum, Cerium, Neodymium, Europium, Holmium, Erbium, Thulium, Lutetium.**





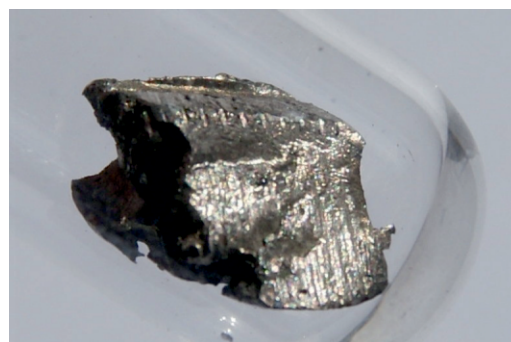
# RARE EARTH METALS

58 **Cerium**  
**Ce**  
 140.12  
 $[Xe]4f^1 5d^1 6s^2$

## CERIUM

Cerium, atomic no.: 58, symbol as Ce, weight at 140.12, is the most abundant of the rare earths. It is characterized chemically by having two valence states, the +3 cerous and +4 ceric states. The ceric state is the only non-trivalent rare earth ion stable in aqueous solutions. It is, therefore, strongly acidic and a strong oxidizer. The cerous state closely resembles the other trivalent rare earths.

The numerous commercial applications for Cerium include glass and glass polishing, phosphors, ceramics, catalysts and metallurgy.

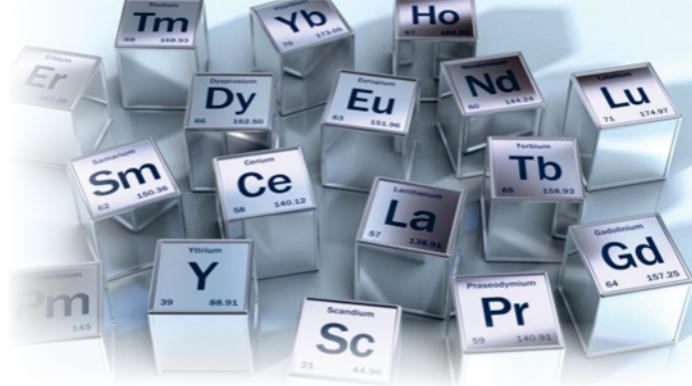


Product Code	Product Name	Packing
<b>RE0100</b>	<b>Ammonium Ceric Nitrate</b> (Ammonium Cerium (IV) Nitrate)	<b>25 gm</b> <b>100 gm</b> <b>1 kg</b>
$(NH_4)_2[Ce(NO_3)_6]$ (16774-21-3)	M. W.: 548.23 Assay (after drying ex Ce) 98.0%	
<b>RE0110</b>	<b>Ammonium Ceric Nitrate AR/ACS</b>	<b>100 gm</b> <b>500 gm</b>
$(NH_4)_2[Ce(NO_3)_6]$ (16774-21-3)	M. W.: 548.23 Assay (after drying ex Ce) 99.0%	
<b>RE0120</b>	<b>Ammonium Ceric Sulphate Dihydrate</b> (Ammonium Cerium (IV) Sulphate)	<b>100 gm</b> <b>500 gm</b>
$(NH_4)_4[Ce(SO_4)_4] \cdot 2H_2O$ (10378-47-9)	M. W.: 632.55 Assay (ex Ce) 90.0-105.0%	
<b>RE0130</b>	<b>Ammonium Ceric Sulphate AR/ACS</b> (Ceric Ammonium Sulphate)	<b>100 gm</b> <b>500 gm</b>
$(NH_4)_4[Ce(SO_4)_4] \cdot 2H_2O$ (10378-47-9)	M. W.: 632.55 Assay 99.0%	
<b>RE0150</b>	<b>Ceric Hydroxide AR</b>	<b>50 gm</b>
$Ce(OH)_4$ (12014-56-1)	M. W.: 208.15 Assay (trace Metals Basis) 99.9%	
<b>RE0165</b>	<b>Ceric Oxide AR</b> (Cerium IV Oxide)	<b>100 gm</b> <b>500 gm</b>
$CeO_2$ (1306-38-3)	M. W.: 172.12 Assay (trace metals basis) 99.9%	
<b>RE0170</b>	<b>Ceric Oxide AR</b> (Cerium IV Oxide)	<b>100 gm</b> <b>500 gm</b>
$CeO_2$ (1306-38-3)	M. W.: 172.12 Assay (trace metals basis) 99.99%	
<b>RE0175</b>	<b>Ceric Oxide AR</b> (Cerium IV Oxide)	<b>10 gm</b> <b>50 gm</b>
$CeO_2$ (1306-38-3)	M. W.: 172.12 Assay (trace metals basis) 99.999%	
<b>RE0190</b>	<b>Ceric Sulphate Tetrahydrate AR</b>	<b>100 gm</b> <b>1 kg</b>
$Ce(SO_4)_2 \cdot 4H_2O$ (10294-42-5)	M. W.: 404.30 Assay (ex Ce) 99.0%	

Product Code	Product Name	Packing
<b>RE0205</b>	<b>Cerium Metal Ingot</b>	<b>25 gm</b> <b>100 gm</b>
Ce (7440-45-1)	M. W.: 140.12 Assay (Trace metal basis) 99.99%	
<b>RE0210</b>	<b>Cerium Metal Lump (1cm)</b>	<b>25 gm</b> <b>100 gm</b>
Ce (7440-45-1)	M. W.: 140.12 Assay (Trace metal basis) 99.99%	
<b>RE0215</b>	<b>Cerium Metal Powder 325 mesh</b>	<b>5 gm</b> <b>25 gm</b>
Ce (7440-45-1)	At. W. 140.12 Assay (Trace metals basis) 99.9%	
<b>RE0220</b>	<b>Cerium Metal Wire (0.1 mm)</b>	<b>25 gm</b> <b>100 gm</b>
Ce (7440-45-1)	M. W.: 140.12 Assay (Trace metal basis) 99.99%	
<b>RE0225</b>	<b>Cerium Metal Rod (5mm x 30cm)</b>	<b>1 PCS</b>
Ce (7440-45-1)	M. W.: 140.12 Assay (Trace metal basis) 99.99%	
<b>RE0230</b>	<b>Cerium Metal Foil (0.25 mm x40 cm)</b>	<b>1 PCS</b>
Ce (7440-45-1)	M. W.: 140.12 Assay (Trace metal basis) 99.99%	
<b>RE0235</b>	<b>Cerium Metal Foil (0.50 mm x40 cm)</b>	<b>1 PCS</b>
Ce (7440-45-1)	M. W.: 140.12 Assay (Trace metal basis) 99.99%	
<b>RE0240</b>	<b>Cerium Metal SLAB (1cm x 40 cm)</b>	<b>1 PCS</b>
Ce (7440-45-1)	M. W.: 140.12 Assay (Trace metal basis) 99.99%	
<b>RE0245</b>	<b>Cerium Metal Disc (0.1 mm X Dia 35 cm)</b>	<b>1 PCS</b>
Ce (7440-45-1)	M. W.: 140.12 Assay (Trace metal basis) 99.99%	
<b>RE0260</b>	<b>Cerium (III) Acetate</b>	<b>100 gm</b> <b>500 gm</b>
$Ce(CH_3CO_2)_3 \cdot xH_2O$ (206996-60-3)	M. W.: 317.25 (Anhy.) Assay (Trace metal basis) 99.9%	
<b>RE0265</b>	<b>Cerium (III) Acetate</b>	<b>50 gm</b> <b>250 gm</b>
$Ce(CH_3CO_2)_3 \cdot xH_2O$ (206996-60-3)	M. W.: 317.25 (Anhy.) Assay (Trace metal basis) 99.99%	



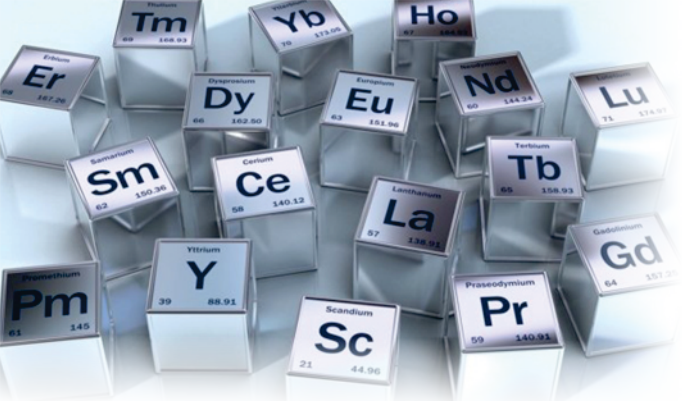
# RARE EARTH METALS



Product Code	Product Name	Packing
<b>RE0270</b> Ce(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .xH <sub>2</sub> O (206996-60-3)	<b>Cerium (III) Acetate</b> M. W.: 317.25 (Anhy.) Assay (Trace metal basis) 99.999%	10 gm 50 gm
<b>RE0280</b> Ce <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (54451-25-1)	<b>Cerium (III) Carbonate</b> M. W.: 460.27 (Anhy.) Assay (Trace metal basis) 99%	100 gm
<b>RE0285</b> Ce <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (54451-25-1)	<b>Cerium (III) Carbonate</b> M. W.: 460.27 (Anhy.) Assay (Trace metal basis) 99.9%	100 gm 500 gm
<b>RE0295</b> Ce <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (54451-25-1)	<b>Cerium (III) Carbonate</b> M. W.: 460.27 (Anhy.) Assay (Trace metal basis) 99.99%	25 gm 100 gm
<b>RE0310</b> CeCl <sub>3</sub> (7790-86-5)	<b>Cerium (III) Chloride</b> M. W.: 246.48 Assay (Trace metal basis) 99.9%	25 gm 100 gm 500 gm
<b>RE0315</b> CeCl <sub>3</sub> (7790-86-5)	<b>Cerium (III) Chloride</b> M. W.: 246.48 Assay (Trace metal basis) 99.99%	25 gm 100 gm
<b>RE0320</b> CeCl <sub>3</sub> (7790-86-5)	<b>Cerium (III) Chloride</b> M. W.: 246.48 Assay (Trace metal basis) 99.999%	10 gm 100 gm
<b>RE0325</b> CeCl <sub>3</sub> .7H <sub>2</sub> O (18618-55-8)	<b>Cerium(III)Chloride Heptahydrate AR</b> M. W.: 372.58 Assay (Trace metal basis) 98.5%	100 gm 1 kg
<b>RE0340</b> CeF <sub>3</sub> (7758-88-5)	<b>Cerium (III) Fluoride</b> M. W.: 197.12 Assay (trace metals basis) 99.9%	50 gm

Product Code	Product Name	Packing
<b>RE0345</b> CeF <sub>3</sub> (7758-88-5)	<b>Cerium (III) Fluoride</b> M. W.: 197.12 Assay (trace metals basis) 99.99%	10 gm 50 gm
<b>RE0355</b> CeI <sub>3</sub> (7790-87-6)	<b>Cerium (III) Iodide</b> M. W.: 520.83 Assay (Trace metal basis) 99.95%	5 gm 25 gm
<b>RE0370</b> Ce(NO <sub>3</sub> ) <sub>3</sub> .6H <sub>2</sub> O (10294-41-4)	<b>Cerium (III) Nitrate</b> M. W.: 434.23 Assay (trace metals basis) 99.9%	100 gm 1 kg
<b>RE0375</b> Ce(NO <sub>3</sub> ) <sub>3</sub> .6H <sub>2</sub> O (10294-41-4)	<b>Cerium (III) Nitrate</b> M. W.: 434.23 Assay (trace metals basis) 99.99%	50 gm 500 gm
<b>RE0380</b> Ce(NO <sub>3</sub> ) <sub>3</sub> .6H <sub>2</sub> O (10294-41-4)	<b>Cerium (III) Nitrate</b> M. W.: 434.23 Assay (trace metals basis) 99.999%	25 gm 125 gm
<b>RE0395</b> Ce <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .xH <sub>2</sub> O (15750-47-7)	<b>Cerium (III) Oxalate</b> M. W.: 544.29 (Anhy.) Assay (trace metals basis) 99.9%	250 gm
<b>RE0405</b> Ce <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .xH <sub>2</sub> O (15750-47-7)	<b>Cerium (III) Oxalate</b> M. W.: 544.29 (Anhy.) Assay (trace metals basis) 99.999%	50 gm
<b>RE0415</b> Ce(SO <sub>4</sub> ) <sub>3</sub> .xH <sub>2</sub> O (13550-47-5)	<b>Cerium (III) Sulphate</b> M. W.: 568.42 Assay (ex Ce)(trace metals basis) 99.0%	50 gm
<b>RE0425</b> Ce(SO <sub>4</sub> ) <sub>3</sub> .xH <sub>2</sub> O (13550-47-5)	<b>Cerium (III) Sulphate</b> M. W.: 568.42 Assay (trace metals basis) 99.99%	25 gm 100 gm





# RARE EARTH METALS

66 Dysprosium  
**Dy**  
 162.500  
 $[Xe]4f^{10}6s^2$

## DYSPROSIUM

Dysprosium, atomic no.: 66, symbol as Dy, weight at 162.50, is most commonly used as in Neodymium-iron-boron high strength permanent magnets. While it has one of the highest magnetic moments of any of the rare earths (10.6uB), this has not resulted in an ability to perform on its own as a practical alternative to Neodymium compositions.

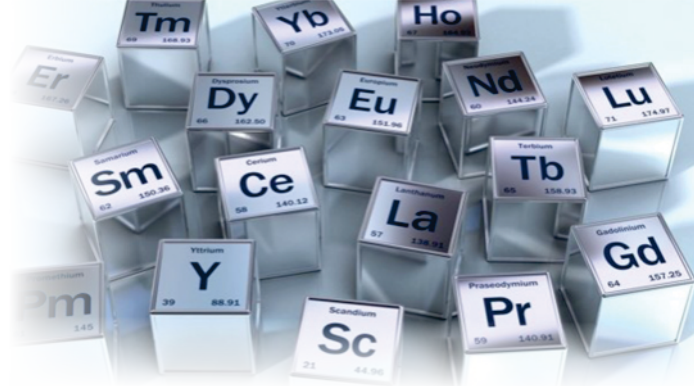
It is however now an essential additive in NdFeB production. It is also used in special ceramic compositions based on BaTiO formulations.



Product Code	Product Name	Packing
<b>RE0435</b> Dy (7429-91-6)	<b>Dysprosium Metal Ingot</b> M. W.: 162.50 Assay (Trace metals basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE0440</b> Dy (7429-91-6)	<b>Dysprosium Metal Lump (1cm)</b> M. W.: 162.50 Assay (Trace metals basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE0445</b> Dy (7429-91-6)	<b>Dysprosium Metal Powder 325 mesh</b> M. W.: 162.50 Assay (Trace metals basis) 99.99%	<b>5 gm</b> <b>10 gm</b> <b>25 gm</b>
<b>RE0450</b> Dy (7429-91-6)	<b>Dysprosium Metal Wire (0.1mm)</b> M. W.: 162.50 Assay (Trace metals basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE0455</b> Dy (7429-91-6)	<b>Dysprosium Metal Rod (5mmx30cm)</b> M. W.: 162.50 Assay (Trace metals basis) 99.99%	<b>1 PC</b>
<b>RE0460</b> Dy (7429-91-6)	<b>Dysprosium Metal Foil (0.25mmx40cm)</b> M. W.: 162.50 Assay (Trace metals basis) 99.99%	<b>1 PC</b>
<b>RE0465</b> Dy (7429-91-6)	<b>Dysprosium Metal Foil (0.50mmx40cm)</b> M. W.: 162.50 Assay (Trace metals basis) 99.99%	<b>1 PC</b>
<b>RE0470</b> Dy (7429-91-6)	<b>Dysprosium Metal Slab (1cmx40cm)</b> M. W.: 162.50 Assay (Trace metals basis) 99.99%	<b>1 PC</b>
<b>RE0475</b> Dy (7429-91-6)	<b>Dysprosium Metal Disc (0.1mmxdia35cm)</b> M. W.: 162.50 Assay (Trace metals basis) 99.99%	<b>1 PC</b>
<b>RE0485</b> (CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> Dy.XH <sub>2</sub> O (304675-49-8)	<b>Dysprosium (III) Acetate</b> M. W.: 339.62 (Anhy.) Assay (Trace metals basis) 99.99%	<b>25 gm</b>
<b>RE0490</b> (CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> Dy.XH <sub>2</sub> O (304675-49-8)	<b>Dysprosium (III) Acetate</b> M. W.: 339.62 (Anhy.) Assay (Trace metals basis) 99.99%	<b>10 gm</b> <b>50 gm</b>

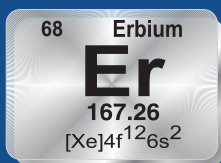
Product Code	Product Name	Packing
<b>RE0495</b> (CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> Dy.XH <sub>2</sub> O (304675-49-8)	<b>Dysprosium (III) Acetate</b> M. W.: 339.62 (Anhy.) Assay (Trace metals basis) 99.999%	<b>1 gm</b> <b>10 gm</b>
<b>RE0505</b> DyBr <sub>3</sub> (14456-48-5)	<b>Dysprosium (III) Bromide</b> M. W.: 402.21 Assay (Trace metals basis) 99.95%	<b>1 gm</b> <b>5 gm</b>
<b>RE0515</b> Dy <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (38245-35-1)	<b>Dysprosium (III) Carbonate</b> M. W.: 505.03 Assay (Trace metals basis) 99%	<b>25 gm</b> <b>100 gm</b>
<b>RE0520</b> Dy <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (38245-35-1)	<b>Dysprosium (III) Carbonate</b> M. W.: 505.03 Assay (Trace metals basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE0525</b> Dy <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (38245-35-1)	<b>Dysprosium (III) Carbonate</b> M. W.: 505.03 Assay (Trace metals basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE0540</b> DyCl <sub>3</sub> .6H <sub>2</sub> O (15059-52-6)	<b>Dysprosium (III) Chloride</b> M. W.: 376.95 Assay (Trace metals basis) 99.99%	<b>10 gm</b> <b>50 gm</b>
<b>RE0545</b> DyCl <sub>3</sub> .6H <sub>2</sub> O (15059-52-6)	<b>Dysprosium (III) Chloride</b> M. W.: 376.95 Assay (Trace metals basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE0565</b> DyF <sub>3</sub> (13569-80-7)	<b>Dysprosium (III) Fluoride</b> M. W.: 219.50 Assay (Trace metals basis) 99.99%	<b>25 gm</b>
<b>RE0570</b> DyF <sub>3</sub> (13569-80-7)	<b>Dysprosium (III) Fluoride</b> M. W.: 219.50 Assay (Trace metals basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>Re0580</b> DyI <sub>3</sub> (15474-63-2)	<b>Dysprosium (III) Iodide</b> M. W.: 543.21 Assay (Trace metals basis) 99.9%	<b>1 gm</b> <b>5 gm</b>
<b>RE0585</b> DyI <sub>3</sub> (15474-63-2)	<b>Dysprosium (III) Iodide</b> M. W.: 543.21 Assay (Trace metals basis) 99.99%	<b>1 gm</b> <b>5 gm</b> <b>25 gm</b>

# RARE EARTH METALS



Product Code	Product Name	Packing
<b>RE0600</b> Dy(NO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (100641-13-2)	<b>Dysprosium (III) Nitrate</b> M. W.: 348.52 Assay (Trace metals basis) 99.9%	<b>25 gm</b> <b>100 gm</b>
<b>RE0605</b> Dy(NO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (100641-13-2)	<b>Dysprosium (III) Nitrate</b> M. W.: 348.52 Assay (Trace metals basis) 99.99%	<b>25 gm</b>
<b>RE0610</b> Dy(NO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (100641-13-2)	<b>Dysprosium (III) Nitrate</b> M. W.: 348.52 Assay (Trace metals basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE0625</b> Dy <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .10H <sub>2</sub> O (24670-07-3)	<b>Dysprosium (III) Oxalate</b> M. W.: 769.21 Assay (Trace metals basis) 99.9%	<b>25 gm</b> <b>100 gm</b>
<b>RE0630</b> Dy <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .10H <sub>2</sub> O (24670-07-3)	<b>Dysprosium (III) Oxalate</b> M. W.: 769.21 Assay (Trace metals basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE0635</b> Dy <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .10H <sub>2</sub> O (24670-07-3)	<b>Dysprosium (III) Oxalate</b> M. W.: 769.21 Assay (Trace metals basis) 99.999%	<b>5 gm</b> <b>25 gm</b>

Product Code	Product Name	Packing
<b>RE0650</b> Dy <sub>2</sub> O <sub>3</sub> (1308-87-8)	<b>Dysprosium (III) Oxide</b> M. W.: 373.00 Assay (Trace metals basis) 99.9%	<b>5 gm</b> <b>25 gm</b> <b>100 gm</b>
<b>RE0655</b> Dy <sub>2</sub> O <sub>3</sub> (1308-87-8)	<b>Dysprosium (III) Oxide</b> M. W.: 373.00 Assay (Trace metals basis) 99.99%	<b>25 gm</b>
<b>RE0660</b> Dy <sub>2</sub> O <sub>3</sub> (1308-87-8)	<b>Dysprosium (III) Oxide</b> M. W.: 373.00 Assay (Trace metals basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE0675</b> Dy(SO <sub>4</sub> ) <sub>3</sub> .XH <sub>2</sub> O (14373-91-2)	<b>Dysprosium (III) Sulphate</b> M. W.: 613.19 (Anhy.) Assay (Trace metals basis) 99.9%	<b>25 gm</b> <b>100 gm</b>
<b>RE0680</b> Dy(SO <sub>4</sub> ) <sub>3</sub> .XH <sub>2</sub> O (14373-91-2)	<b>Dysprosium (III) Sulphate</b> M. W.: 613.19 (Anhy.) Assay (Trace metals basis) 99.99%	<b>5 gm</b> <b>25 gm</b>



## ERBIUM

Erbium, atomic no.: 68, symbol as Er, weight at 167.26, has application in glass coloring, as an amplifier in fiber optics, and in lasers for medical and dental use. It is commonly used as a photographic filter, and because of its resilience it is useful as a metallurgical additive.

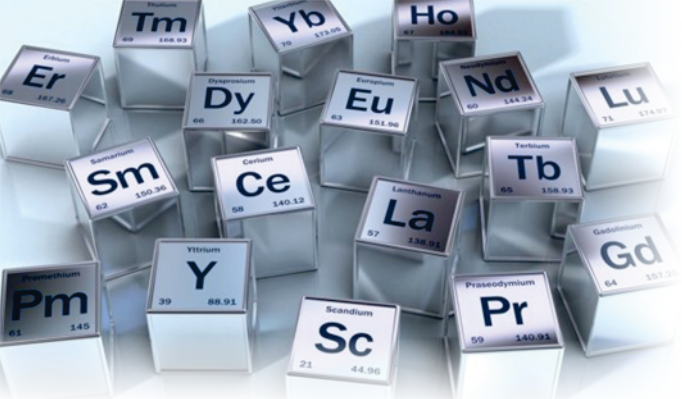
The Erbium ion has a very narrow absorption band coloring erbium salts pink. It is therefore used in eyeware and decorative glassware. It can neutralize discoloring impurities such as ferric ions and produce a neutral gray shade. It is used in a variety of glass products for this purpose.



Product Code	Product Name	Packing
<b>RE0700</b> Er (7440-52-0)	<b>Erbium Metal Ingot</b> M. W.: 167.26 Assay (Trace metal basis) 99.99%	<b>10 gm</b>
<b>RE0705</b> Er (7440-52-0)	<b>Erbium Metal Lump (1 cm)</b> M. W.: 167.26 Assay (Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b> <b>25 gm</b>
<b>RE0710</b> Er (7440-52-0)	<b>Erbium Metal Powder 325 Mesh</b> M. W.: 167.26 Assay (Trace metal basis) 99.9%	<b>5 gm</b> <b>25 gm</b>
<b>RE0715</b> Er (7440-52-0)	<b>Erbium Metal Wire (0.1mm)</b> M. W.: 167.26 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>

Product Code	Product Name	Packing
<b>RE0720</b> Er (7440-52-0)	<b>Erbium Metal Rod (5cmx30cm)</b> M. W.: 167.26 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE0725</b> Er (7440-52-0)	<b>Erbium Metal Foil (0.25mm x 40 cm)</b> M. W.: 167.26 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE0730</b> Er (7440-52-0)	<b>Erbium Metal Foil (0.50mm x 40 cm)</b> M. W.: 167.26 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE0735</b> Er (7440-52-0)	<b>Erbium Metal Slab (1cm x 40 cm)</b> M. W.: 167.26 Assay (Trace metal basis) 99.99%	<b>1 PC</b>

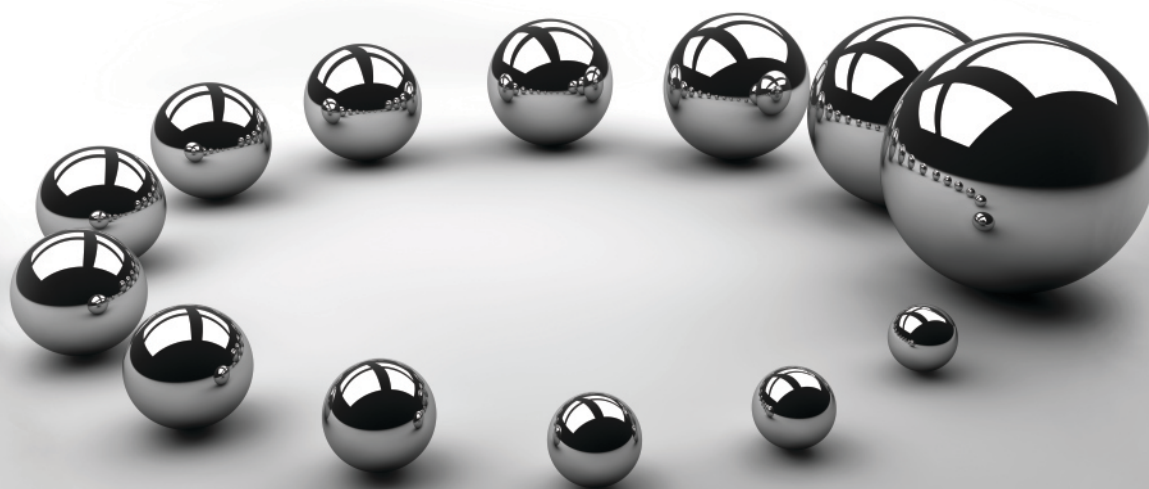




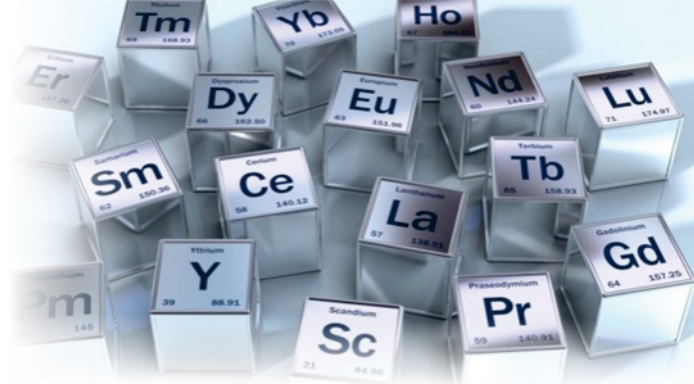
# RARE EARTH METALS

Product Code	Product Name	Packing
<b>RE0740</b> Er (7440-52-0)	<b>Erbium Metal Disc</b> (0.1mm x dia35 cm) M. W.: 167.26 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE0755</b> C <sub>6</sub> H <sub>9</sub> ErO <sub>6</sub> .XH <sub>2</sub> O (207234-04-6)	<b>Erbium (III) Acetate</b> M. W.: 344.39 Assay (Trace metal basis) 99.9%	<b>5 gm</b> <b>10 gm</b> <b>25 gm</b> <b>100 gm</b>
<b>RE0760</b> C <sub>6</sub> H <sub>9</sub> ErO <sub>6</sub> .XH <sub>2</sub> O (207234-04-6)	<b>Erbium (III) Acetate</b> M. W.: 344.39 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE0765</b> C <sub>6</sub> H <sub>9</sub> ErO <sub>6</sub> .XH <sub>2</sub> O (207234-04-6)	<b>Erbium (III) Acetate</b> M. W.: 344.39 Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE0780</b> Er <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (22992-83-2)	<b>Erbium (III) Carbonate</b> M. W.: 514.54 (anhy.) Assay (Trace metal basis) 99.9%	<b>5 gm</b> <b>25 gm</b> <b>100 gm</b>
<b>RE0785</b> Er <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (22992-83-2)	<b>Erbium (III) Carbonate</b> M. W.: 514.54 (anhy.) Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE0790</b> Er <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (22992-83-2)	<b>Erbium (III) Carbonate</b> M. W.: 514.54 (anhy.) Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE0805</b> ErCl <sub>3</sub> .6H <sub>2</sub> O (10025-75-9)	<b>Erbium (III) Chloride</b> M. W.: 381.71 Assay (Trace metal basis) 99.9%	<b>25 gm</b> <b>100 gm</b>
<b>RE0810</b> ErCl <sub>3</sub> .6H <sub>2</sub> O (10025-75-9)	<b>Erbium (III) Chloride</b> M. W.: 381.71 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE0815</b> ErCl <sub>3</sub> .6H <sub>2</sub> O (10025-75-9)	<b>Erbium (III) Chloride</b> M. W.: 381.71 Assay (Trace metal basis) 99.999%	<b>20 gm</b>

Product Code	Product Name	Packing
<b>RE0825</b> ErI <sub>3</sub> (13813-42-8)	<b>Erbium (III) Iodide</b> M. W.: 547.97 Assay (Trace metal basis) 99.95%	<b>1 gm</b> <b>10 gm</b>
<b>RE0840</b> Er(NO <sub>3</sub> ) <sub>3</sub> .5H <sub>2</sub> O (10031-51-3)	<b>Erbium (III) Nitrate</b> M. W.: 443.35 Assay (Trace metal basis) 99.9%	<b>25 gm</b> <b>100 gm</b>
<b>RE0845</b> Er(NO <sub>3</sub> ) <sub>3</sub> .5H <sub>2</sub> O (10031-51-3)	<b>Erbium (III) Nitrate</b> M. W.: 443.35 Assay (Trace metal basis) 99.99%	<b>25 gm</b>
<b>RE0850</b> Er(NO <sub>3</sub> ) <sub>3</sub> .5H <sub>2</sub> O (10031-51-3)	<b>Erbium (III) Nitrate</b> M. W.: 443.35 Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE0865</b> Er <sub>2</sub> O <sub>3</sub> (12061-16-4)	<b>Erbium (III) Oxide</b> M. W.: 382.56 Assay (Trace metal basis) 99.9%	<b>25 gm</b> <b>100 gm</b> <b>1 kg</b>
<b>RE0870</b> Er <sub>2</sub> O <sub>3</sub> (12061-16-4)	<b>Erbium (III) Oxide</b> M. W.: 382.56 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b> <b>100 gm</b> <b>500 gm</b>
<b>RE0875</b> Er <sub>2</sub> O <sub>3</sub> (12061-16-4)	<b>Erbium (III) Oxide</b> M. W.: 382.56 Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b> <b>100 gm</b>
<b>RE0890</b> Er <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (10031-52-4)	<b>Erbium (III) Sulphate</b> M. W.: 766.82 Assay (Trace metal basis) 99.9%	<b>5 gm</b> <b>50 gm</b> <b>100 gm</b>
<b>RE0895</b> Er <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (10031-52-4)	<b>Erbium (III) Sulphate</b> M. W.: 766.82 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE0900</b> Er <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (10031-52-4)	<b>Erbium (III) Sulphate</b> M. W.: 766.82 Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>



# RARE EARTH METALS



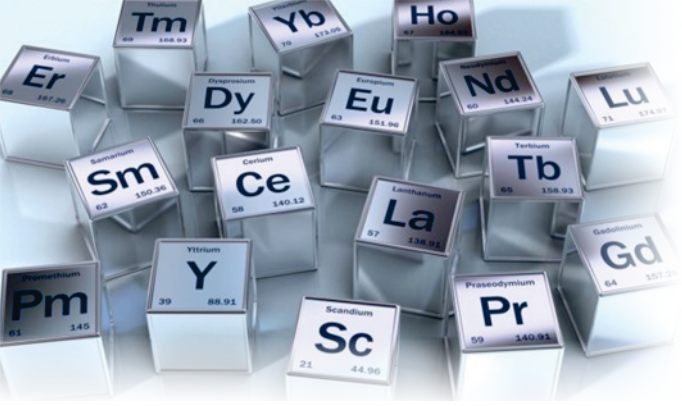
## EUROPIUM

Europium, atomic no.: 63, symbol as Eu, weight at 151.96, is utilized primarily for its unique luminescent behavior. Excitation of the Europium atom by absorption of ultra violet radiation can result in specific energy level transitions within the atom creating an emission of visible radiation. It is a dopant in some types of glass in lasers and other optoelectronic devices. Europium Oxide ( $\text{Eu}_2\text{O}_3$ ) is widely used as a red phosphor in television sets and fluorescent lamps, and as an activator for Yttrium-based phosphors.



Product Code	Product Name	Packing
<b>RE0910</b>	<b>Europium Metal Ingot</b>	<b>1 gm</b>
Eu	M. W.: 151.96	<b>5 gm</b>
(7440-53-1)	Assay (Trace metal basis) 99.99%	<b>25 gm</b>
<b>RE0915</b>	<b>Europium Metal Lump (1cm)</b>	<b>1 gm</b>
Eu	M. W.: 151.96	<b>5 gm</b>
(7440-53-1)	Assay (Trace metal basis) 99.99%	<b>25 gm</b>
<b>RE0925</b>	<b>Europium (III) Acetate</b>	<b>5 gm</b>
$\text{Eu}(\text{O}_2\text{C}_2\text{H}_3)_3 \cdot \text{XH}_2\text{O}$	M. W.: 329.1 (anhy.)	<b>25 gm</b>
(62667-64-5)	Assay (Trace metal basis) 99.9%	
<b>RE0930</b>	<b>Europium (III) Acetate</b>	<b>1 gm</b>
$\text{Eu}(\text{O}_2\text{C}_2\text{H}_3)_3 \cdot \text{XH}_2\text{O}$	M. W.: 329.1 (anhy.)	<b>5 gm</b>
(62667-64-5)	Assay (Trace metal basis) 99.99%	<b>25 gm</b>
<b>RE0935</b>	<b>Europium (III) Acetate</b>	<b>1 gm</b>
$\text{Eu}(\text{O}_2\text{C}_2\text{H}_3)_3 \cdot \text{XH}_2\text{O}$	M. W.: 329.1 (anhy.)	<b>10 gm</b>
(62667-64-5)	Assay (Trace metal basis) 99.999%	<b>50 gm</b>
<b>RE0945</b>	<b>Europium (III) Bromide</b>	<b>5 gm</b>
$\text{EuBr}_3 \cdot \text{XH}_2\text{O}$	M. W.: 391.68 (anhy.)	
(560069-78-5)	Assay (Trace metal basis) 99.99%	
<b>RE0955</b>	<b>Europium (III) Carbonate</b>	<b>5 gm</b>
$\text{Eu}_2(\text{CO}_3)_3 \cdot \text{XH}_2\text{O}$	M. W.: 483.95 (anhy.)	<b>25 gm</b>
(86546-99-8)	Assay (Trace metal basis) 99.9%	
<b>RE0960</b>	<b>Europium (III) Carbonate</b>	<b>1 gm</b>
$\text{Eu}_2(\text{CO}_3)_3 \cdot \text{XH}_2\text{O}$	M. W.: 483.95 (anhy.)	<b>5 gm</b>
(86546-99-8)	Assay (Trace metal basis) 99.99%	<b>25 gm</b>
<b>RE0965</b>	<b>Europium (III) Carbonate</b>	<b>1 gm</b>
$\text{Eu}_2(\text{CO}_3)_3 \cdot \text{XH}_2\text{O}$	M. W.: 483.95 (anhy.)	<b>5 gm</b>
(86546-99-8)	Assay (Trace metal basis) 99.999%	<b>25 gm</b>
<b>RE0975</b>	<b>Europium (III) Chloride</b>	<b>5 gm</b>
$\text{EuCl}_3 \cdot 6\text{H}_2\text{O}$	M. W.: 366.41	<b>25 gm</b>
(13759-92-7)	Assay (Trace metal basis) 99.9%	
<b>RE0980</b>	<b>Europium (III) Chloride</b>	<b>1 gm</b>
$\text{EuCl}_3 \cdot 6\text{H}_2\text{O}$	M. W.: 366.41	<b>5 gm</b>
(13759-92-7)	Assay (Trace metal basis) 99.99%	<b>25 gm</b>
<b>RE0985</b>	<b>Europium (III) Chloride</b>	<b>1 gm</b>
$\text{EuCl}_3 \cdot 6\text{H}_2\text{O}$	M. W.: 366.41	<b>5 gm</b>
(13759-92-7)	Assay (Trace metal basis) 99.999%	<b>25 gm</b>

Product Code	Product Name	Packing
<b>RE0995</b>	<b>Europium (III) Nitrate</b>	<b>1 gm</b>
$\text{Eu}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$	M. W.: 446.06	<b>2 gm</b>
(10031-53-5)	Assay (Trace metal basis) 99.9%	<b>10 gm</b>
		<b>50 gm</b>
<b>RE1000</b>	<b>Europium (III) Nitrate</b>	<b>1 gm</b>
$\text{Eu}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$	M. W.: 446.06	<b>5 gm</b>
(10031-53-5)	Assay (Trace metal basis) 99.99%	<b>25 gm</b>
<b>RE1005</b>	<b>Europium (III) Nitrate</b>	<b>1 gm</b>
$\text{Eu}(\text{NO}_3)_3 \cdot 6\text{H}_2\text{O}$	M. W.: 446.06	<b>5 gm</b>
(10031-53-5)	Assay (Trace metal basis) 99.999%	<b>25 gm</b>
<b>RE1015</b>	<b>Europium (III) Oxalate</b>	<b>10 gm</b>
$\text{Eu}_2(\text{C}_2\text{O}_4)_3 \cdot \text{XH}_2\text{O}$	M. W.: 567.99 (anhy.)	<b>25 gm</b>
(304675-55-6)	Assay (Trace metal basis) 99.9%	
<b>RE1020</b>	<b>Europium (III) Oxalate</b>	<b>5 gm</b>
$\text{Eu}_2(\text{C}_2\text{O}_4)_3 \cdot \text{XH}_2\text{O}$	M. W.: 567.99 (anhy.)	<b>25 gm</b>
(304675-55-6)	Assay (Trace metal basis) 99.99%	
<b>RE1025</b>	<b>Europium (III) Oxalate</b>	<b>1 gm</b>
$\text{Eu}_2(\text{C}_2\text{O}_4)_3 \cdot \text{XH}_2\text{O}$	M. W.: 567.99 (anhy.)	<b>5 gm</b>
(304675-55-6)	Assay (Trace metal basis) 99.999%	<b>25 gm</b>
<b>RE1035</b>	<b>Europium (III) Oxide</b>	<b>1 gm</b>
$\text{Eu}_2\text{O}_3$	M. W.: 351.92	<b>5 gm</b>
(1308-96-9)	Assay (trace metals basis) 99.9%	<b>25 gm</b>
<b>RE1040</b>	<b>Europium (III) Oxide</b>	<b>1 gm</b>
$\text{Eu}_2\text{O}_3$	M. W.: 351.92	<b>5 gm</b>
(1308-96-9)	Assay (trace metals basis) 99.99%	<b>25 gm</b>
		<b>100 gm</b>
<b>RE1045</b>	<b>Europium (III) Oxide</b>	<b>25 gm</b>
$\text{Eu}_2\text{O}_3$	M. W.: 351.92	<b>100 gm</b>
(1308-96-9)	Assay (trace metals basis) 99.999%	
<b>RE1055</b>	<b>Europium (III) Sulphate</b>	<b>1 gm</b>
$\text{Eu}_2(\text{SO}_4)_3 \cdot \text{XH}_2\text{O}$	M. W.: 592.10 (anhy.)	<b>5 gm</b>
(20814-06-6)	Assay (trace metals basis) 99.9%	<b>25 gm</b>
<b>RE1060</b>	<b>Europium (III) Sulphate</b>	<b>1 gm</b>
$\text{Eu}_2(\text{SO}_4)_3 \cdot \text{XH}_2\text{O}$	M. W.: 592.10 (anhy.)	<b>5 gm</b>
(20814-06-6)	Assay (trace metals basis) 99.99%	<b>25 gm</b>
<b>RE1065</b>	<b>Europium (III) Sulphate</b>	<b>1 gm</b>
$\text{Eu}_2(\text{SO}_4)_3 \cdot \text{XH}_2\text{O}$	M. W.: 592.10 (anhy.)	<b>5 gm</b>
(20814-06-6)	Assay (trace metals basis) 99.999%	<b>25 gm</b>



# RARE EARTH METALS

64 Gadolinium  
**Gd**  
 157.25  
 $[Xe]4f^7 5d^1 6s^2$

## GADOLINIUM

Gadolinium, atomic no.: 64, symbol as Gd, weight at 157.25, is utilized for both its high magnetic moment (7.94uB) and in phosphors and scintillated material. When mixed with EDTA dopants, it is used as an injectable contrast agent for patients undergoing magnetic resonance imaging. With its high magnetic moment, Gadolinium can reduce relaxation times and thereby enhance signal intensity.

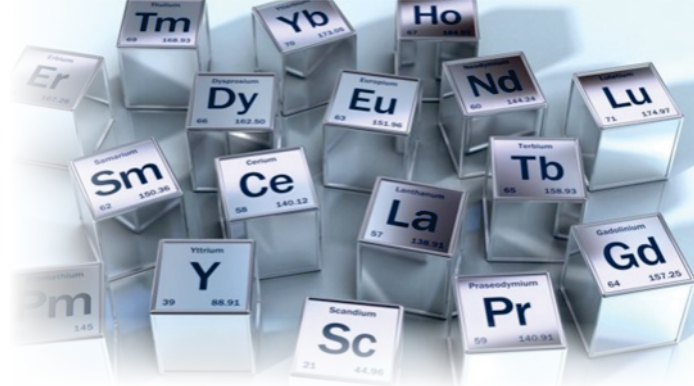


Product Code	Product Name	Packing
<b>RE1075</b> Gd (7440-54-2)	<b>Gadolinium Metal Ingot</b> M. W.: 157.25 Assay (Trace metal basis) 99.99%	<b>10 gm</b>
<b>RE1080</b> Gd (7440-54-2)	<b>Gadolinium Metal Lump (1 cm)</b> M. W.: 157.25 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE1085</b> Gd (7440-54-2)	<b>Gadolinium Metal Powder 325 mesh</b> M. W.: 157.25 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b> <b>100 gm</b>
<b>RE1090</b> Gd (7440-54-2)	<b>Gadolinium Metal Rod (5mmx30cm)</b> M. W.: 157.25 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE1095</b> Gd (7440-54-2)	<b>Gadolinium Metal Foil (0.25mmx40cm)</b> M. W.: 157.25 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE1100</b> Gd (7440-54-2)	<b>Gadolinium Metal Foil (0.50mmx40cm)</b> M. W.: 157.25 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE1105</b> Gd (7440-54-2)	<b>Gadolinium Metal SLAB (1cmx40cm)</b> M. W.: 157.25 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE1110</b> Gd (7440-54-2)	<b>Gadolinium Metal Disc (0.1mmx35cm)</b> M. W.: 157.25 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE1125</b> Gd(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .XH <sub>2</sub> O (100587-93-7)	<b>Gadolinium (III) Acetate</b> M. W.: 334.39 Assay (Trace metal basis) 99.9%	<b>5 gm</b> <b>25 gm</b> <b>100 gm</b>
<b>RE1130</b> Gd(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .XH <sub>2</sub> O (100587-93-7)	<b>Gadolinium (III) Acetate</b> M. W.: 334.39 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE1135</b> Gd(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .XH <sub>2</sub> O (100587-93-7)	<b>Gadolinium (III) Acetate</b> M. W.: 334.39 Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>10 gm</b> <b>25 gm</b>
<b>RE1145</b> Gd <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (38245-36-2)	<b>Gadolinium (III) Carbonate</b> M. W.: 494.53 Assay (Trace metal basis) 99%	<b>25 gm</b> <b>100 gm</b> <b>500 gm</b>

Product Code	Product Name	Packing
<b>RE1150</b> Gd <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (38245-36-2)	<b>Gadolinium (III) Carbonate</b> M. W.: 494.53 Assay (Trace metal basis) 99.9%	<b>10 gm</b> <b>100 gm</b>
<b>RE1155</b> Gd <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (38245-36-2)	<b>Gadolinium (III) Carbonate</b> M. W.: 494.53 Assay (Trace metal basis) 99.99%	<b>25 gm</b>
<b>RE1160</b> Gd <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (38245-36-2)	<b>Gadolinium (III) Carbonate</b> M. W.: 494.53 Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE1175</b> GdCl <sub>3</sub> .6H <sub>2</sub> O (13450-84-5)	<b>Gadolinium (III) Chloride</b> M. W.: 371.70 Assay (Trace metal basis) 99.9%	<b>10 gm</b> <b>25 gm</b> <b>100 gm</b> <b>1 kg</b>
<b>RE1180</b> GdCl <sub>3</sub> .6H <sub>2</sub> O (13450-84-5)	<b>Gadolinium (III) Chloride</b> M. W.: 371.70 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE1185</b> GdCl <sub>3</sub> .6H <sub>2</sub> O (13450-84-5)	<b>Gadolinium (III) Chloride</b> M. W.: 371.70 Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE1195</b> GdI <sub>3</sub> (13572-98-0)	<b>Gadolinium (III) Iodide</b> M.W. : 537.96 Assay (Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b>
<b>RE1210</b> Gd(NO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O(X=6) (94219-55-3)	<b>Gadolinium (III) Nitrate</b> M. W.: 343.26 (anhy.) Assay (Trace metal basis) 99.9%	<b>25 gm</b> <b>100 gm</b>
<b>RE1215</b> Gd(NO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O(X=6) (94219-55-3)	<b>Gadolinium (III) Nitrate</b> M. W.: 343.26 (anhy.) Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE1220</b> Gd(NO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O(X=6) (94219-55-3)	<b>Gadolinium (III) Nitrate</b> M. W.: 343.26 (anhy.) Assay (Trace metal basis) 99.999%	<b>10 gm</b>
<b>RE1230</b> Gd <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .10H <sub>2</sub> O (22992-15-0)	<b>Gadolinium (III) Oxalate</b> M. W.: 578.55 Assay (Trace metal basis) 99%	<b>25 gm</b> <b>100 gm</b> <b>500 gm</b>



# RARE EARTH METALS



Product Code	Product Name	Packing
<b>RE1240</b> Gd <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> ·10H <sub>2</sub> O (22992-15-0)	<b>Gadolinium (III) Oxalate</b> M. W.: 578.55 Assay (Trace metal basis) 99.99%	5 gm 25 gm
<b>RE1245</b> Gd <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> ·10H <sub>2</sub> O (22992-15-0)	<b>Gadolinium (III) Oxalate</b> M. W.: 578.55 Assay (Trace metal basis) 99.999%	5 gm 25 gm
<b>RE1255</b> Gd <sub>2</sub> O <sub>3</sub> (12064-62-9)	<b>Gadolinium (III) Oxide</b> M. W.: 362.50 Assay (Trace metal basis) 99.9%	5 gm 25 gm 100 gm 500 gm
<b>RE1260</b> Gd <sub>2</sub> O <sub>3</sub> (12064-62-9)	<b>Gadolinium (III) Oxide</b> M. W.: 362.50 Assay (Trace metal basis) 99.99%	25 gm 50 gm 250 gm 1 kg

Product Code	Product Name	Packing
<b>RE1265</b> Gd <sub>2</sub> O <sub>3</sub> (12064-62-9)	<b>Gadolinium (III) Oxide</b> M. W.: 362.50 Assay (Trace metal basis) 99.999%	25 gm 100 gm
<b>RE1270</b> Gd <sub>2</sub> O <sub>3</sub> (12064-62-9)	<b>Gadolinium (III) Oxide</b> M. W.: 362.50 Assay (Trace metal basis) 99.9999%	5 gm 25 gm
<b>RE1285</b> Gd <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ·8H <sub>2</sub> O (13450-87-8)	<b>Gadolinium (III) Sulphate</b> M. W.: 746.81 Assay (Trace metal basis) 99.9%	10 gm 50 gm 100 gm
<b>RE1295</b> Gd <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> ·8H <sub>2</sub> O (13450-87-8)	<b>Gadolinium (III) Sulphate</b> M. W.: 746.81 Assay (Trace metal basis) 99.999%	5 gm 25 gm

67 Holmium  
**Ho**  
164.93  
[Xe]4f<sup>11</sup>6s<sup>2</sup>

## HOLMIUM

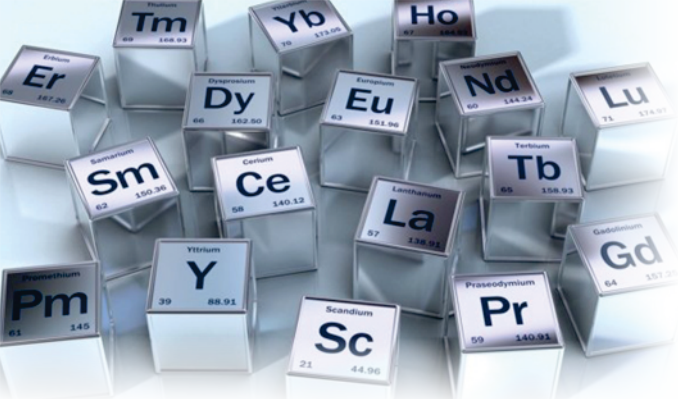
Holmium, atomic no.: 67, symbol as Ho, weight at 164.93, has the highest magnetic moment (10.6uB) of any naturally occurring element. Because of this it has been used to create the highest known magnetic fields by placing it within high strength magnets as a pole piece or magnetic flux concentrator.

This magnetic property also has value in Yttrium-Iron-Garnet (YIG) lasers for microwave equipment.



Product Code	Product Name	Packing
<b>RE1310</b> Ho (7440-60-0)	<b>Holmium Metal Lump</b> M. W.: 164.93 Assay (Trace metal basis) 99.99%	5 gm
<b>RE1315</b> Ho (7440-60-0)	<b>Holmium Metal Powder 325 mesh</b> M. W.: 164.93 Assay (Trace metal basis) 99.99%	5 gm 25 gm 100 gm
<b>RE1320</b> Ho (7440-60-0)	<b>Holmium Metal Wire (0.1mm)</b> M. W.: 164.93 Assay (Trace metal basis) 99.99%	5 gm 25 gm
<b>RE1325</b> Ho (7440-60-0)	<b>Holmium Metal Rod (5mmx30cm)</b> M. W.: 164.93 Assay (Trace metal basis) 99.99%	1 PC
<b>RE1330</b> Ho (7440-60-0)	<b>Holmium Metal Foil (0.25mmx40 cm)</b> M. W.: 164.93 Assay (Trace metal basis) 99.99%	1 PC

Product Code	Product Name	Packing
<b>RE1335</b> Ho (7440-60-0)	<b>Holmium Metal Foil (0.50mmx40 cm)</b> M. W.: 164.93 Assay (Trace metal basis) 99.99%	1 PC
<b>RE1340</b> Ho (7440-60-0)	<b>Holmium Metal SLAB (1cmx40cm)</b> M. W.: 164.93 Assay (Trace metal basis) 99.99%	1 PC
<b>RE1345</b> Ho (7440-60-0)	<b>Holmium Metal Disc (0.1mmxdia 35cm)</b> M. W.: 164.93 Assay (Trace metal basis) 99.99%	1 PC
<b>RE1360</b> Ho(O <sub>2</sub> C <sub>2</sub> H <sub>3</sub> ) <sub>3</sub> ·XH <sub>2</sub> O (312619-49-1)	<b>Holmium (III) Acetate</b> M. W.: 342.07 Assay (Trace metal basis) 99.9%	2 gm 10 gm 25 gm
<b>RE1365</b> Ho(O <sub>2</sub> C <sub>2</sub> H <sub>3</sub> ) <sub>3</sub> ·XH <sub>2</sub> O (312619-49-1)	<b>Holmium (III) Acetate</b> M. W.: 342.07 Assay (Trace metal basis) 99.99%	10 gm 50 gm



# RARE EARTH METALS

Product Code	Product Name	Packing
<b>RE1370</b> Ho(O <sub>2</sub> C <sub>2</sub> H <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (312619-49-1)	<b>Holmium (III) Acetate</b> M. W.: 342.07 Assay (Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b>
<b>RE1380</b> Ho <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (38245-34-0)	<b>Holmium (III) Carbonate</b> M. W.: 509.88 Assay (Trace metal basis) 99.90%	<b>10 gm</b> <b>50 gm</b> <b>100 gm</b>
<b>RE1390</b> HoCl <sub>3</sub> .6H <sub>2</sub> O (14914-84-2)	<b>Holmium (III) Chloride</b> M. W.: 379.38 Assay (Trace metal basis) 99.90%	<b>5 gm</b> <b>25 gm</b> <b>100 gm</b>
<b>RE1400</b> HoI <sub>3</sub> (13813-41-7)	<b>Holmium (III) Iodide</b> M.W. : 545.64 Assay (Trace metal basis) 99.95%	<b>1 gm</b> <b>5 gm</b>
<b>RE1415</b> Ho <sub>2</sub> O <sub>3</sub> (12055-62-8)	<b>Holmium (III) Oxide</b> M. W.: 377.86 Assay (Trace metal basis) 99.9%	<b>5 gm</b> <b>10 gm</b> <b>50 gm</b>

Product Code	Product Name	Packing
<b>RE1420</b> Ho <sub>2</sub> O <sub>3</sub> (12055-62-8)	<b>Holmium (III) Oxide</b> M. W.: 377.86 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>10 gm</b> <b>50 gm</b>
<b>RE1425</b> Ho <sub>2</sub> O <sub>3</sub> (12055-62-8)	<b>Holmium (III) Oxide</b> M. W.: 377.86 Assay (Trace metal basis) 99.999%	<b>1 gm</b> <b>5 gm</b> <b>25 gm</b>
<b>RE1440</b> Ho <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13473-57-9)	<b>Holmium (III) Sulphate</b> M.W. : 762.17 Assay (Trace metal basis) 99.9%	<b>5 gm</b> <b>25 gm</b>
<b>RE1445</b> Ho <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13473-57-9)	<b>Holmium (III) Sulphate</b> M.W. : 762.17 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE1450</b> Ho <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13473-57-9)	<b>Holmium (III) Sulphate</b> M.W. : 762.17 Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>

57 Lanthanum  
**La**  
138.91  
[Xe]5d<sup>1</sup>6s<sup>2</sup>  
a : 1.88  
zp: 1.10

## LANTHANUM

Lanthanum, atomic no.: 57, symbol as La, weight at 138.91, is the first element in the rare earth or Lanthanide series. It is the model for all the other trivalent rare earths. After Cerium, it is the second most abundant of the rare earths.

Lanthanum-rich Lanthanide compounds have been used extensively for cracking reactions in FCC catalysts, especially to manufacture high-octane gasoline from heavy crude oil.

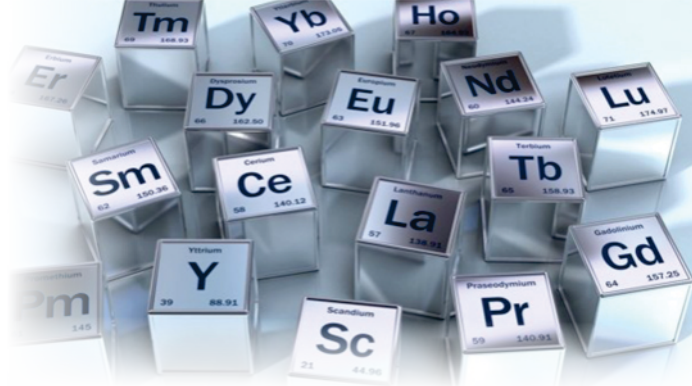
Lanthanum-Rich Rare Earth metals play the important roles in hydrogen storage batteries. Lanthanum Fluoride is used in phosphor lamp coatings.



Product Code	Product Name	Packing
<b>RE1460</b> La (7439-91-0)	<b>Lanthanum Metal Ingot</b> M. W.: 138.91 Assay (Trace metal basis) 99.99%	<b>25 gm</b>
<b>RE1465</b> La (7439-91-0)	<b>Lanthanum Metal Lump (1cm)</b> M. W.: 138.91 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE1470</b> La (7439-91-0) La	<b>Lanthanum Metal Wire (0.1mm)</b> M. W.: 138.91 Assay (Trace metal basis) 99.99% M. W.: 138.91	<b>5 gm</b> <b>25 gm</b>
<b>RE1475</b> La (7439-91-0)	<b>Lanthanum Metal Rod (5mmx30cm)</b> M. W.: 138.91 Assay (Trace metal basis) 99.99%	<b>1 PC</b>

Product Code	Product Name	Packing
<b>RE1480</b> La (7439-91-0)	<b>Lanthanum Metal Foil (0.25mmx40 cm)</b> M. W.: 138.91 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE1485</b> La (7439-91-0)	<b>Lanthanum Metal Foil (0.50mmx40 cm)</b> M. W.: 138.91 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE1490</b> La (7439-91-0)	<b>Lanthanum Metal SLAB (1cmx40cm)</b> M. W.: 138.91 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE1495</b> La (7439-91-0)	<b>Lanthanum Metal Disc (0.1mmx35cm)</b> M. W.: 138.91 Assay (Trace metal basis) 99.99%	<b>1 PC</b>

# RARE EARTH METALS

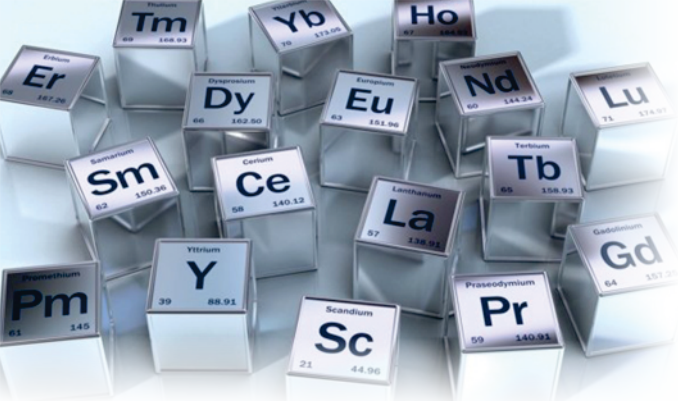


Product Code	Product Name	Packing
<b>RE1510</b> La(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .XH <sub>2</sub> O (100587-90-4)	<b>Lanthanum Acetate</b> M. W.: 316.04 (anhy.) Assay (Trace metal basis) 99.9%	<b>100 gm</b> <b>500 gm</b>
<b>RE1515</b> La(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .XH <sub>2</sub> O (100587-90-4)	<b>Lanthanum Acetate</b> M. W.: 316.04 (anhy.) Assay (Trace metal basis) 99.99%	<b>25 gm</b> <b>250 gm</b>
<b>RE1520</b> La(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .XH <sub>2</sub> O (100587-90-4)	<b>Lanthanum Acetate</b> M. W.: 316.04 (anhy.) Assay (Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b>
<b>RE1530</b> La <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (54451-24-0)	<b>Lanthanum Carbonate</b> M. W.: 457.85 (anhy.) Assay (Trace metal basis) 99.5%	<b>25 gm</b> <b>100 gm</b> <b>500 gm</b>
<b>RE1535</b> La <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (54451-24-0)	<b>Lanthanum Carbonate</b> M. W.: 457.85 (anhy.) Assay (Trace metal basis) 99.9%	<b>100 gm</b> <b>500 gm</b>
<b>RE1540</b> La <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (54451-24-0)	<b>Lanthanum Carbonate</b> M. W.: 457.85 (anhy.) Assay (Trace metal basis) 99.99%	<b>100 gm</b> <b>500 gm</b>
<b>RE1545</b> La <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (54451-24-0)	<b>Lanthanum Carbonate</b> M. W.: 457.85 (anhy.) Assay (Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b>
<b>RE1555</b> LaCl <sub>3</sub> .XH <sub>2</sub> O (20211-76-1)	<b>Lanthanum Chloride</b> M. W.: 245.27 (anhy.) Assay (Trace metal basis) 99.0%	<b>100 gm</b> <b>500 gm</b>
<b>RE1560</b> LaCl <sub>3</sub> .XH <sub>2</sub> O (20211-76-1)	<b>Lanthanum Chloride</b> M. W.: 245.27 (anhy.) Assay (Trace metal basis) 99.9%	<b>100 gm</b> <b>500 gm</b>
<b>RE1565</b> LaCl <sub>3</sub> .XH <sub>2</sub> O (20211-76-1)	<b>Lanthanum Chloride</b> M. W.: 245.27 (anhy.) Assay (Trace metal basis) 99.99%	<b>100 gm</b> <b>500 gm</b>
<b>RE1570</b> LaCl <sub>3</sub> .XH <sub>2</sub> O (20211-76-1)	<b>Lanthanum Chloride</b> M. W.: 245.27 (anhy.) Assay (Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b>
<b>RE1585</b> LaF <sub>3</sub> (13709-38-1)	<b>Lanthanum Fluoride</b> M. W.: 195.91 Assay (Trace metal basis) 99.9%	<b>100 gm</b> <b>500 gm</b>
<b>RE1590</b> LaF <sub>3</sub> (13709-38-1)	<b>Lanthanum Fluoride</b> M. W.: 195.91 Assay (Trace metal basis) 99.99%	<b>100 gm</b> <b>500 gm</b>
<b>RE1595</b> LaF <sub>3</sub> (13709-38-1)	<b>Lanthanum Fluoride</b> M. W.: 195.91 Assay (Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b>

Product Code	Product Name	Packing
<b>RE1610</b> La(OH) <sub>3</sub> (14507-19-8)	<b>Lanthanum Hydroxide</b> M. W.: 189.93 Assay (Trace metal basis) 99.9%	<b>100 gm</b> <b>500 gm</b>
<b>RE1615</b> La(OH) <sub>3</sub> (14507-19-8)	<b>Lanthanum Hydroxide</b> M. W.: 189.93 Assay (Trace metal basis) 99.99%	<b>100 gm</b>
<b>RE1620</b> La(OH) <sub>3</sub> (14507-19-8)	<b>Lanthanum Hydroxide</b> M. W.: 189.93 Assay (Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b>
<b>RE1630</b> La(NO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (100587-94-8)	<b>Lanthanum Nitrate</b> M. W.: 324.92 Assay (Trace metal basis) 99.0%	<b>100 gm</b> <b>500 gm</b>
<b>RE1635</b> La(NO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (100587-94-8)	<b>Lanthanum Nitrate</b> M. W.: 324.92 Assay (Trace metal basis) 99.9%	<b>100 gm</b> <b>500 gm</b>
<b>RE1640</b> La(NO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (100587-94-8)	<b>Lanthanum Nitrate</b> M. W.: 324.92 Assay (Trace metal basis) 99.99%	<b>100 gm</b> <b>500 gm</b>
<b>RE1645</b> La(NO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (100587-94-8)	<b>Lanthanum Nitrate</b> M. W.: 324.92 Assay (Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b>
<b>RE1685</b> La <sub>2</sub> O <sub>3</sub> (1312-81-8)	<b>Lanthanum Oxide</b> M. W.: 325.82 Assay (Trace metal basis) 99.9%	<b>100 gm</b> <b>500 gm</b>
<b>RE1690</b> La <sub>2</sub> O <sub>3</sub> (1312-81-8)	<b>Lanthanum Oxide</b> M. W.: 325.82 Assay (Trace metal basis) 99.99%	<b>100 gm</b> <b>1 kg</b>
<b>RE1700</b> La <sub>2</sub> O <sub>3</sub> (1312-81-8)	<b>Lanthanum Oxide</b> M. W.: 325.82 Assay (Trace metal basis) 99.999%	<b>100 gm</b> <b>500 gm</b>
<b>RE1715</b> La <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .XH <sub>2</sub> O (57804-25-8)	<b>Lanthanum Sulphate</b> M. W.: 566.00 (anhy.) Assay (Trace metal basis) 99.9%	<b>100 gm</b> <b>500 gm</b>
<b>RE1720</b> La <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .XH <sub>2</sub> O (57804-25-8)	<b>Lanthanum Sulphate</b> M. W.: 566.00 (anhy.) Assay (Trace metal basis) 99.99%	<b>100 gm</b> <b>500 gm</b>
<b>RE1725</b> La <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .XH <sub>2</sub> O (57804-25-8)	<b>Lanthanum Sulphate</b> M. W.: 566.00 (anhy.) Assay (Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b> <b>500 gm</b>







# RARE EARTH METALS

71 Lutetium  
**Lu**  
 174.97  
 $[Xe]4f^{14}5d^16s^2$

## LUTETIUM

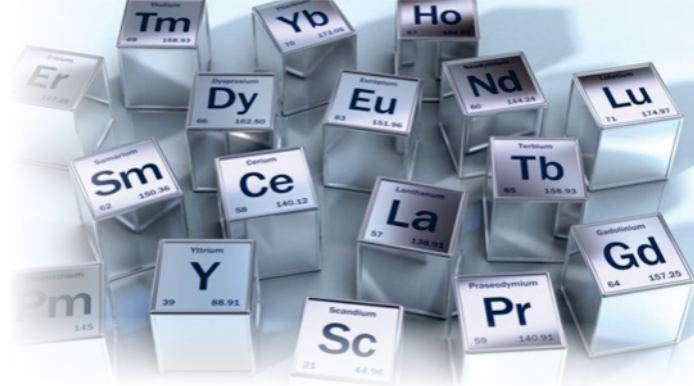
Lutetium, atomic no.: 71, symbol as Lu, weight at 174.97, is the last member of the rare earth series. Unlike most rare earths it lacks a magnetic moment. It also has the smallest metallic radius of any rare earth. It is perhaps the least naturally abundant of the Lanthanides. It is the ideal host for x-ray phosphors because it produces the densest known white material, Lutetium Tantalate ( $LuTaO_4$ ). It is utilized as a dopant in matching lattice parameters of certain substrate garnet crystals.



Product Code	Product Name	Packing
<b>RE1735</b> Lu (7439-94-3)	<b>Lutetium Metal Ingot</b> M. W.: 174.97 Assay (Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b> <b>25 gm</b>
<b>RE1740</b> Lu (7439-94-3)	<b>Lutetium Metal Lump (1cm)</b> M. W.: 174.97 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE1745</b> Lu (7439-94-3)	<b>Lutetium Metal Wire (0.1mm)</b> M. W.: 174.97 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE1750</b> Lu (7439-94-3)	<b>Lutetium Metal Rod (5mmx30cm)</b> M. W.: 174.97 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE1755</b> Lu (7439-94-3)	<b>Lutetium Metal Foil (0.25mmx40 cm)</b> M. W.: 174.97 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE1760</b> Lu (7439-94-3)	<b>Lutetium Metal Foil (0.50mmx40 cm)</b> M. W.: 174.97 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE1765</b> Lu (7439-94-3)	<b>Lutetium Metal SLAB (1cmx40cm)</b> M. W.: 174.97 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE1770</b> Lu (7439-94-3)	<b>Lutetium Metal Disc (0.1mmx35cm)</b> M. W.: 174.97 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE1780</b> $Lu(O_2C_2H_3)_3 \cdot xH_2O$ (207500-05-8)	<b>Lutetium (III) Acetate</b> M. W.: 352.11 (Anhy.) Assay (Trace metal basis) 99.9%	<b>1 gm</b> <b>5 gm</b>
<b>RE1785</b> $Lu(O_2C_2H_3)_3 \cdot xH_2O$ (207500-05-8)	<b>Lutetium (III) Acetate</b> M. W.: 352.11 (Anhy.) Assay (Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b>
<b>RE1790</b> $Lu(O_2C_2H_3)_3 \cdot xH_2O$ (207500-05-8)	<b>Lutetium (III) Acetate</b> M. W.: 352.11 (Anhy.) Assay (Trace metal basis) 99.999%	<b>1 gm</b> <b>5 gm</b>

Product Code	Product Name	Packing
<b>RE1795</b> $Lu(O_2C_2H_3)_3 \cdot xH_2O$ (207500-05-8)	<b>Lutetium (III) Acetate</b> M. W.: 352.11 (Anhy.) Assay (Trace metal basis) 99.9999%	<b>1 gm</b> <b>5 gm</b>
<b>RE1805</b> $Lu_2(CO_3)_3 \cdot xH_2O$ (64360-99-2)	<b>Lutetium (III) Carbonate</b> M. W.: 529.97 (Anhy.) Assay (Trace metal basis) 99.9%	<b>1 gm</b> <b>5 gm</b>
<b>RE1810</b> $Lu_2(CO_3)_3 \cdot xH_2O$ (64360-99-2)	<b>Lutetium (III) Carbonate</b> M. W.: 529.97 (Anhy.) Assay (Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b>
<b>RE1815</b> $Lu_2(CO_3)_3 \cdot xH_2O$ (64360-99-2)	<b>Lutetium (III) Carbonate</b> M. W.: 529.97 (Anhy.) Assay (Trace metal basis) 99.999%	<b>1 gm</b> <b>5 gm</b>
<b>RE1820</b> $Lu_2(CO_3)_3 \cdot xH_2O$ (64360-99-2)	<b>Lutetium (III) Carbonate</b> M. W.: 529.97 (Anhy.) Assay (Trace metal basis) 99.9999%	<b>1 gm</b> <b>5 gm</b>
<b>RE1830</b> $LuCl_3 \cdot 6H_2O$ (15230-79-2)	<b>Lutetium (III) Chloride</b> M. W.: 389.42 Assay (Trace metal basis) 99.9%	<b>1 gm</b> <b>5 gm</b>
<b>RE1835</b> $LuCl_3 \cdot 6H_2O$ (15230-79-2)	<b>Lutetium (III) Chloride</b> M. W.: 389.42 Assay (Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b>
<b>RE1840</b> $LuCl_3 \cdot 6H_2O$ (15230-79-2)	<b>Lutetium (III) Chloride</b> M. W.: 389.42 Assay (Trace metal basis) 99.999%	<b>1 gm</b> <b>5 gm</b>
<b>RE1845</b> $LuCl_3 \cdot 6H_2O$ (15230-79-2)	<b>Lutetium (III) Chloride</b> M. W.: 389.42 Assay (Trace metal basis) 99.9999%	<b>1 gm</b> <b>5 gm</b>
<b>RE1855</b> $Lu(NO_3)_3 \cdot xH_2O$ (100641-16-5)	<b>Lutetium (III) Nitrate</b> M. W.: 360.98 (Anhy.) Assay (Trace metal basis) 99.9%	<b>1 gm</b> <b>5 gm</b> <b>25 gm</b>
<b>RE1860</b> $Lu(NO_3)_3 \cdot xH_2O$ (100641-16-5)	<b>Lutetium (III) Nitrate</b> M. W.: 360.98 (Anhy.) Assay (Trace metal basis) 99.99%	<b>2 gm</b> <b>10 gm</b>

# RARE EARTH METALS



Product Code	Product Name	Packing
<b>RE1865</b> Lu(NO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (100641-16-5)	<b>Lutetium (III) Nitrate</b> M. W.: 360.98 (Anhy.) Assay (Trace metal basis) 99.999%	<b>5 gm</b>
<b>RE1870</b> Lu(NO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (100641-16-5)	<b>Lutetium (III) Nitrate</b> M. W.: 360.98 (Anhy.) Assay (Trace metal basis) 99.9999%	<b>1 gm</b> <b>5 gm</b>
<b>RE1880</b> Lu <sub>2</sub> O <sub>3</sub> (12032-20-1)	<b>Lutetium (III) Oxide</b> M. W.: 397.94 Assay (Trace metal basis) 99.9%	<b>1 gm</b> <b>5 gm</b> <b>25 gm</b>
<b>RE1885</b> Lu <sub>2</sub> O <sub>3</sub> (12032-20-1)	<b>Lutetium (III) Oxide</b> M. W.: 397.94 Assay (Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b> <b>25 gm</b>
<b>RE1890</b> Lu <sub>2</sub> O <sub>3</sub> (12032-20-1)	<b>Lutetium (III) Oxide</b> M. W.: 397.94 Assay (Trace metal basis) 99.999%	<b>1 gm</b> <b>5 gm</b>

Product Code	Product Name	Packing
<b>RE1895</b> Lu <sub>2</sub> O <sub>3</sub> (12032-20-1)	<b>Lutetium (III) Oxide</b> M. W.: 397.94 Assay (Trace metal basis) 99.9999%	<b>1 gm</b> <b>5 gm</b>
<b>RE1905</b> Lu <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13473-77-3)	<b>Lutetium (III) Sulphate</b> M. W.: 782.24 Assay (Trace metal basis) 99.9%	<b>1 gm</b> <b>5 gm</b>
<b>RE1910</b> Lu <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13473-77-3)	<b>Lutetium (III) Sulphate</b> M. W.: 782.24 Assay (Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b>
<b>RE1915</b> Lu <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13473-77-3)	<b>Lutetium (III) Sulphate</b> M. W.: 782.24 Assay (Trace metal basis) 99.999%	<b>1 gm</b> <b>5 gm</b>
<b>RE1920</b> Lu <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13473-77-3)	<b>Lutetium (III) Sulphate</b> M. W.: 782.24 Assay (Trace metal basis) 99.9999%	<b>1 gm</b> <b>5 gm</b>

60 Neodymium

**Nd**  
144.24  
[Xe]4f<sup>4</sup>6s<sup>2</sup>

## NEODYMIUM

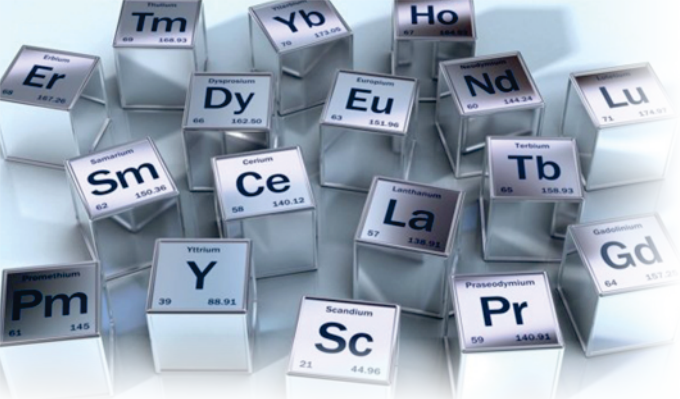
Neodymium, atomic no.: 60, symbol as Nd, weight at 144.24, is the most abundant of the rare earths after Cerium and Lanthanum. It shows similar characteristics to the other trivalent Lanthanides.

Primary applications include lasers, glass coloring and tinting, dielectrics and, most importantly, as the fundamental basis for Neodymium-Iron-Boron (Nd<sub>2</sub>Fe<sub>14</sub>B) permanent magnets.



Product Code	Product Name	Packing
<b>RE1930</b> Nd (7440-00-8)	<b>Neodymium Metal Ingot</b> M. W.: 144.24 Assay (Trace metal basis) 99.99%	<b>25 gm</b>
<b>RE1935</b> Nd (7440-00-8)	<b>Neodymium Metal Lump</b> M. W.: 144.24 Assay (Trace metal basis) 99.99%	<b>25 gm</b>
<b>RE1940</b> Nd (7440-00-8)	<b>Neodymium Metal Powder</b> M. W.: 144.24 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE1945</b> Nd (7440-00-8)	<b>Neodymium Metal Wire 0.1mm</b> M. W.: 144.24 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE1950</b> Nd (7440-00-8)	<b>Neodymium Metal Rod 5mmx30cm</b> M. W.: 144.24 Assay (Trace metal basis) 99.99%	<b>1 PC</b>

Product Code	Product Name	Packing
<b>RE1955</b> Nd (7440-00-8)	<b>Neodymium Metal Foil 0.25 mmx40cm</b> M. W.: 144.24 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE1960</b> Nd (7440-00-8)	<b>Neodymium Metal Foil 0.50 mmx40cm</b> M. W.: 144.24 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE1965</b> Nd (7440-00-8)	<b>Neodymium Metal SLAB 1cmx40cm</b> M. W.: 144.24 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE1970</b> Nd (7440-00-8)	<b>Neodymium Metal Disc 0.1mmxdia 35cm</b> M. W.: 144.24 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE1985</b> Nd(O <sub>2</sub> C <sub>2</sub> H <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (334869-71-5)	<b>Neodymium (III) Acetate</b> M. W.: 321.38 (Anhy.) Assay (Trace metal basis) 99.9%	<b>50 gm</b> <b>250 gm</b>



# RARE EARTH METALS

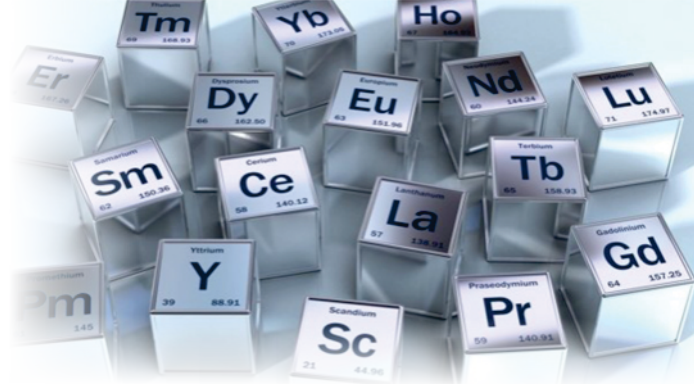
Product Code	Product Name	Packing
<b>RE1990</b> Nd(O <sub>2</sub> C <sub>2</sub> H <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (334869-71-5)	<b>Neodymium (III) Acetate</b> M. W.: 321.38 (Anhy.) Assay (Trace metal basis) 99.99%	25 gm 100 gm
<b>RE1995</b> Nd(O <sub>2</sub> C <sub>2</sub> H <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (334869-71-5)	<b>Neodymium (III) Acetate</b> M. W.: 321.38 (Anhy.) Assay (Trace metal basis) 99.999%	25 gm 100 gm
<b>RE2010</b> Nd <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (38245-38-4)	<b>Neodymium (III) Carbonate</b> M. W.: 468.51 (Anhy.) Assay (Trace metal basis) 99.9%	50 gm 250 gm
<b>RE2015</b> Nd <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (38245-38-4)	<b>Neodymium (III) Carbonate</b> M. W.: 468.51 (Anhy.) Assay (Trace metal basis) 99.99%	25 gm 100 gm
<b>RE2020</b> Nd <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (38245-38-4)	<b>Neodymium (III) Carbonate</b> M. W.: 468.51 (Anhy.) Assay (Trace metal basis) 99.999%	25 gm 100 gm
<b>RE2035</b> NdCl <sub>3</sub> .xH <sub>2</sub> O (10024-93-8)	<b>Neodymium (III) Chloride</b> M. W.: 250.60 (Anhy.) Assay (Trace metal basis) 99.9%	50 gm 250 gm
<b>RE2040</b> NdCl <sub>3</sub> .xH <sub>2</sub> O (10024-93-8)	<b>Neodymium (III) Chloride</b> M. W.: 250.60 (Anhy.) Assay (Trace metal basis) 99.99%	25 gm 100 gm
<b>RE2045</b> NdCl <sub>3</sub> .xH <sub>2</sub> O (10024-93-8)	<b>Neodymium (III) Chloride</b> M. W.: 250.60 (Anhy.) Assay (Trace metal basis) 99.999%	25 gm 100 gm
<b>RE2055</b> NdI <sub>3</sub> (13813-24-6)	<b>Neodymium (III) Iodide</b> M. W.: 524.95 Assay (Trace metal basis) 99.95%	5 gm 25 gm 100 gm
<b>RE2070</b> Nd(NO <sub>3</sub> ) <sub>3</sub> .6H <sub>2</sub> O (16454-60-7)	<b>Neodymium (III) Nitrate</b> M. W.: 438.35 Assay (Trace metal basis) 99.9%	50 gm 250 gm

Product Code	Product Name	Packing
<b>RE2075</b> Nd(NO <sub>3</sub> ) <sub>3</sub> .6H <sub>2</sub> O (16454-60-7)	<b>Neodymium (III) Nitrate</b> M. W.: 438.35 Assay (Trace metal basis) 99.99%	25 gm 100 gm
<b>RE2080</b> Nd(NO <sub>3</sub> ) <sub>3</sub> .6H <sub>2</sub> O (16454-60-7)	<b>Neodymium (III) Nitrate</b> M. W.: 438.35 Assay (Trace metal basis) 99.999%	25 gm 100 gm
<b>RE2090</b> Nd <sub>2</sub> O <sub>3</sub> (1313-97-9)	<b>Neodymium (III) Oxide</b> M. W.: 336.48 Assay (Trace metal basis) 99%	25 gm 100 gm 500 gm
<b>RE2095</b> Nd <sub>2</sub> O <sub>3</sub> (1313-97-9)	<b>Neodymium (III) Oxide</b> M. W.: 336.48 Assay (Trace metal basis) 99.9%	10 gm 25 gm 250 gm 500 gm
<b>RE2100</b> Nd <sub>2</sub> O <sub>3</sub> (1313-97-9)	<b>Neodymium (III) Oxide</b> M. W.: 336.48 Assay (Trace metal basis) 99.99%	25 gm 100 gm 1 kg
<b>RE2105</b> Nd <sub>2</sub> O <sub>3</sub> (1313-97-9)	<b>Neodymium (III) Oxide</b> M. W.: 336.48 Assay (Trace metal basis) 99.999%	25 gm 100 gm
<b>RE2120</b> Nd <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13477-91-3)	<b>Neodymium (III) Sulphate</b> M. W.: 720.78 Assay (Trace metal basis) 99.9%	25 gm 100 gm
<b>RE2125</b> Nd <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13477-91-3)	<b>Neodymium (III) Sulphate</b> M. W.: 720.78 Assay (Trace metal basis) 99.99%	25 gm 100 gm
<b>RE2130</b> Nd <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13477-91-3)	<b>Neodymium (III) Sulphate</b> M. W.: 720.78 Assay (Trace metal basis) 99.999%	2 gm 10 gm





# RARE EARTH METALS



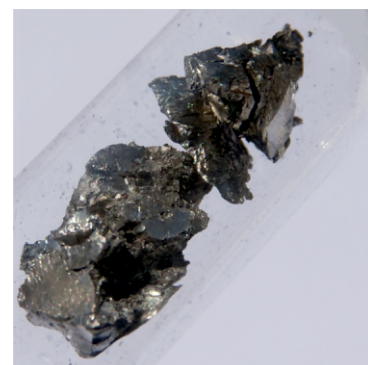
59 Praseodymium  
**Pr**  
 140.91  
 $[\text{Xe}]4f^36s^2$

## PRASEODYMIUM

Praseodymium, atomic no.:59, symbol as Pr, weight at 140.91, resembles the typical trivalent rare earths, however, it will exhibit a +4 state when stabilized in a zirconia host. The element is found in most all light rare earth derivatives.

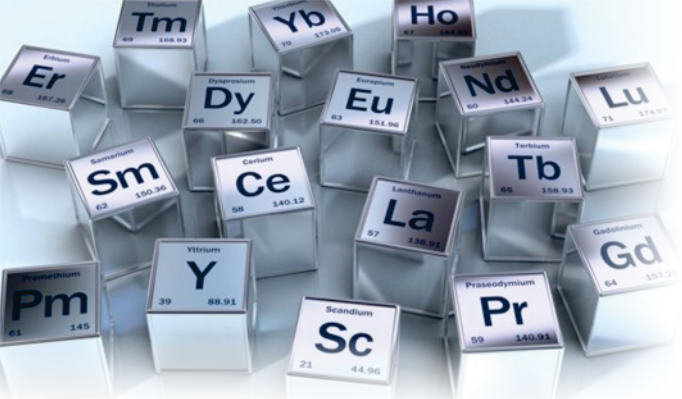
It is highly valued for ceramics as a bright yellow pigment in praseodymium doped zirconia because of its optimum reflectance at 560 nm.

Much research is being done on its optical properties for use in amplification of telecommunication systems, including as a doping agent in Fluoride fibers.



Product Code	Product Name	Packing
<b>RE2140</b> (7440-10-0)	<b>Praseodymium Metal Ingot</b> Assay ( Trace metal basis) 99.99%	<b>10 gm</b> <b>50 gm</b>
<b>RE2145</b> (7440-10-0)	<b>Praseodymium Metal Lump</b> Assay ( Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE2150</b> (7440-10-0)	<b>Praseodymium Metal Powder 325 Mesh</b> Assay ( Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE2155</b> (7440-10-0)	<b>Praseodymium Metal Wire 0.1mm</b> Assay ( Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE2160</b> (7440-10-0)	<b>Praseodymium Metal Rod 5mmx30cm</b> Assay ( Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE2165</b> (7440-10-0)	<b>Praseodymium Metal Foil 0.25 mmx40cm</b> Assay ( Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE2170</b> (7440-10-0)	<b>Praseodymium Metal Foil 0.50 mmx40cm</b> Assay ( Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE2175</b> (7440-10-0)	<b>Praseodymium Metal SLAB 1cmx40cm</b> Assay ( Trace metal basis) 99.99%	<b>1 PC</b>
<b>Re2180</b> (7440-10-0)	<b>Praseodymium Metal Disc 0.1mmxdia 35cm</b> Assay ( Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE2195</b> $\text{Pr}(\text{O}_2\text{C}_2\text{H}_3)_3 \cdot x\text{H}_2\text{O}$ (334869-74-8)	<b>Praseodymium Acetate</b> M. W.: 318.03 Assay ( Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b>
<b>RE2200</b> $\text{Pr}(\text{O}_2\text{C}_2\text{H}_3)_3 \cdot x\text{H}_2\text{O}$ (334869-74-8)	<b>Praseodymium Acetate</b> M. W.: 318.03 Assay ( Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b>
<b>RE2205</b> $\text{Pr}(\text{O}_2\text{C}_2\text{H}_3)_3 \cdot x\text{H}_2\text{O}$ (334869-74-8)	<b>Praseodymium Acetate</b> M. W.: 318.03 Assay ( Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b>
<b>RE2220</b> $\text{Pr}_2(\text{CO}_3)_3 \cdot 8\text{H}_2\text{O}$ (14948-62-0)	<b>Praseodymium Carbonate</b> M. W.: 605.97 Assay ( Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b>
<b>RE2225</b> $\text{Pr}_2(\text{CO}_3)_3 \cdot 8\text{H}_2\text{O}$ (14948-62-0)	<b>Praseodymium Carbonate</b> M. W.: 605.97 Assay ( Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b>
<b>RE2230</b> $\text{Pr}_2(\text{CO}_3)_3 \cdot 8\text{H}_2\text{O}$ (14948-62-0)	<b>Praseodymium Carbonate</b> M. W.: 605.97 Assay ( Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b>

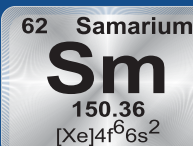
Product Code	Product Name	Packing
<b>RE2245</b> $\text{PrCl}_3 \cdot x\text{H}_2\text{O}$ (19423-77-9)	<b>Praseodymium Chloride</b> M. W.: 247.27 Assay ( Trace metal basis) 99.9%	<b>25 gm</b> <b>100 gm</b>
<b>RE2250</b> $\text{PrCl}_3 \cdot x\text{H}_2\text{O}$ (19423-77-9)	<b>Praseodymium Chloride</b> M. W.: 247.27 Assay ( Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b>
<b>RE2255</b> $\text{PrCl}_3 \cdot x\text{H}_2\text{O}$ (19423-77-9)	<b>Praseodymium Chloride</b> M. W.: 247.27 Assay ( Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b>
<b>RE2270</b> $\text{PrF}_3$ (13709-46-1)	<b>Praseodymium Fluoride</b> M. W.: 197.90 Assay ( Trace metal basis) 99.9%	<b>10 gm</b> <b>100 gm</b>
<b>RE2275</b> $\text{PrF}_3$ (13709-46-1)	<b>Praseodymium Fluoride</b> M. W.: 197.90 Assay ( Trace metal basis) 99.99%	<b>10 gm</b> <b>100 gm</b>
<b>RE2280</b> $\text{PrF}_3$ (13709-46-1)	<b>Praseodymium Fluoride</b> M. W.: 197.90 Assay ( Trace metal basis) 99.999%	<b>10 gm</b> <b>100 gm</b>
<b>RE2300</b> $\text{Pr}(\text{OH})_3 \cdot x\text{H}_2\text{O}$	<b>Praseodymium Hydroxide</b> M. W.: 191.90 Assay ( Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b>
<b>RE2305</b> $\text{Pr}(\text{OH})_3 \cdot x\text{H}_2\text{O}$	<b>Praseodymium Hydroxide</b> M. W.: 191.90 Assay ( Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b>
<b>RE2320</b> $\text{Pr}(\text{NO}_3)_3 \cdot x\text{H}_2\text{O}$	<b>Praseodymium Nitrate</b> M. W.: 326.92 (Anhy.) Assay ( Trace metal basis) 99.9%	<b>25 gm</b> <b>100 gm</b>
<b>RE2325</b> $\text{Pr}(\text{NO}_3)_3 \cdot x\text{H}_2\text{O}$	<b>Praseodymium Nitrate</b> M. W.: 326.92 (Anhy.) Assay ( Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b>
<b>RE2330</b> $\text{Pr}(\text{NO}_3)_3 \cdot x\text{H}_2\text{O}$	<b>Praseodymium Nitrate</b> M. W.: 326.92 (Anhy.) Assay ( Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b>



# RARE EARTH METALS

Product Code	Product Name	Packing
<b>RE2345</b> Pr <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .xH <sub>2</sub> O (28877-86-3)	<b>Praseodymium Oxalate</b> M. W.: 545.87 (Anhy.) Assay ( Trace metal basis) 99.9%	<b>25 gm</b>
<b>RE2350</b> Pr <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .xH <sub>2</sub> O (28877-86-3)	<b>Praseodymium Oxalate</b> M. W.: 545.87 (Anhy.) Assay ( Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE2355</b> Pr <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .xH <sub>2</sub> O (28877-86-3)	<b>Praseodymium Oxalate</b> M. W.: 545.87 (Anhy.) Assay ( Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE2370</b> Pr <sub>6</sub> O <sub>11</sub> (12037-29-5)	<b>Praseodymium Oxide</b> M. W.: 1021.43 Assay (Trace metal basis) 99.9%	<b>10 gm</b> <b>25 gm</b> <b>100 gm</b>

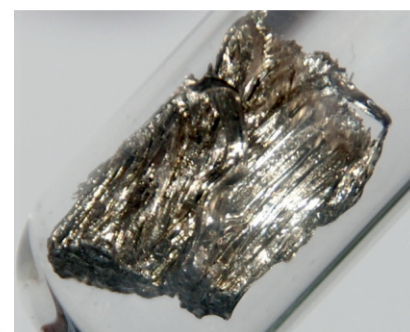
Product Code	Product Name	Packing
<b>RE2375</b> Pr <sub>6</sub> O <sub>11</sub> (12037-29-5)	<b>Praseodymium Oxide</b> M. W.: 1021.43 Assay (Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b>
<b>RE2380</b> Pr <sub>6</sub> O <sub>11</sub> (12037-29-5)	<b>Praseodymium Oxide</b> M. W.: 1021.43 Assay (Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b>
<b>RE2395</b> Pr <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13510-41-3)	<b>Praseodymium Sulphate</b> M. W.: 714.12 Assay (Trace metal basis) 99.9%	<b>25 gm</b> <b>100 gm</b> <b>500 gm</b>
<b>RE2400</b> Pr <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13510-41-3)	<b>Praseodymium Sulphate</b> M. W.: 714.12 Assay (Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b>



## SAMARIUM

Samarium, atomic no.: 62, symbol as Sm, weight at 150.36, is primarily utilized in the production of Samarium-Cobalt (Sm<sub>2</sub>Co<sub>17</sub>) permanent magnets. It is also used in laser applications and for its dielectric properties.

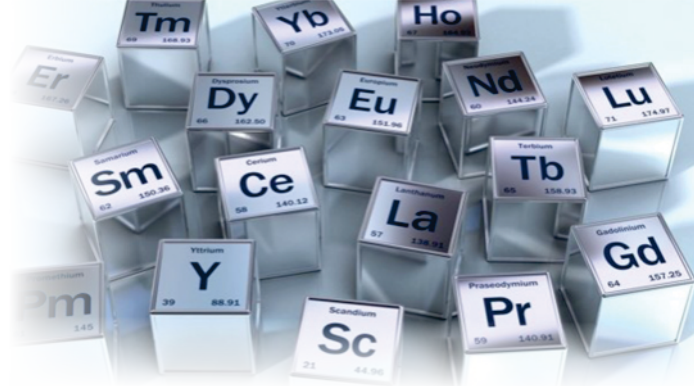
Because of its weak spectral absorption band Samarium is used in the filter glass on Nd:YAG solid state lasers to surround the laser rod to improve efficiency by absorbing stray emissions.



Product Code	Product Name	Packing
<b>RE2410</b> (7440-19-9)	<b>Samarium Metal Ingot</b> Assay (Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b>
<b>RE2415</b> (7440-19-9)	<b>Samarium Metal Lump (1 cm)</b> Assay (Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b>
<b>RE2420</b> (7440-19-9)	<b>Samarium Metal Powder 325 mesh</b> Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE2425</b> (7440-19-9)	<b>Samarium Metal Wire (0.1 mm)</b> Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE2430</b> (7440-19-9)	<b>Samarium Metal Rod (5mmx30cm)</b> Assay (Trace metal basis) 99.99%	<b>1 Pc</b>
<b>RE2435</b> (7440-19-9)	<b>Samarium Metal Foil (0.25mmx40cm)</b> Assay (Trace metal basis) 99.99%	<b>1 Pc</b>
<b>RE2440</b> (7440-19-9)	<b>Samarium Metal Foil (0.50mmx40cm)</b> Assay (Trace metal basis) 99.99%	<b>1 Pc</b>
<b>RE2445</b> (7440-19-9)	<b>Samarium Metal Slab (1cmx40cm)</b> Assay (Trace metal basis) 99.99%	<b>1 Pc</b>

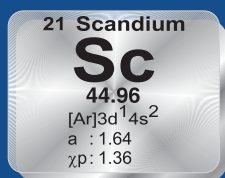
Product Code	Product Name	Packing
<b>RE2450</b> (7440-19-9)	<b>Samarium Metal Disc (0.1mmxdia 35cm)</b> Assay (Trace metal basis) 99.99%	<b>1 Pc</b>
<b>RE2465</b> SmC <sub>6</sub> HgO <sub>6</sub> .XH <sub>2</sub> O (100587-91-5)	<b>Samarium (III) Acetate</b> M. W.: 327.49 (Anhy.) Assay (Trace metal basis) 99.9%	<b>25 gm</b> <b>100 gm</b>
<b>RE2470</b> SmC <sub>6</sub> HgO <sub>6</sub> .XH <sub>2</sub> O (100587-91-5)	<b>Samarium (III) Acetate</b> M. W.: 327.49 (Anhy.) Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE2480</b> Sm <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (38245-37-3)	<b>Samarium (III) Carbonate</b> M. W.: 480.73 (Anhy.) Assay (Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b>
<b>RE2485</b> Sm <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (38245-37-3)	<b>Samarium (III) Carbonate</b> M. W.: 480.73 (Anhy.) Assay (Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b>
<b>RE2490</b> Sm <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (38245-37-3)	<b>Samarium (III) Carbonate</b> M. W.: 480.73 (Anhy.) Assay (Trace metal basis) 99.9999%	<b>5 gm</b> <b>25 gm</b>

# RARE EARTH METALS



Product Code	Product Name	Packing
<b>RE2500</b> SmCl <sub>3</sub> .XH <sub>2</sub> O (10361-82-7)	<b>Samarium (III) Chloride</b> M. W.: 256.71 (Anhy.) Assay (Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b>
<b>RE2505</b> SmCl <sub>3</sub> .XH <sub>2</sub> O (10361-82-7)	<b>Samarium (III) Chloride</b> M. W.: 256.71 (Anhy.) Assay (Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b>
<b>RE2510</b> SmCl <sub>3</sub> .XH <sub>2</sub> O (10361-82-7)	<b>Samarium (III) Chloride</b> M. W.: 256.71 (Anhy.) Assay (Trace metal basis) 99.9999%	<b>5 gm</b> <b>25 gm</b>
<b>RE2520</b> Sm(NO <sub>3</sub> ) <sub>3</sub> .6H <sub>2</sub> O (13759-83-6)	<b>Samarium (III) Nitrate</b> M. W.: 444.47 Assay (Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b>
<b>RE2525</b> Sm(NO <sub>3</sub> ) <sub>3</sub> .6H <sub>2</sub> O (13759-83-6)	<b>Samarium (III) Nitrate</b> M. W.: 444.47 Assay (Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b>
<b>RE2530</b> Sm(NO <sub>3</sub> ) <sub>3</sub> .6H <sub>2</sub> O (13759-83-6)	<b>Samarium (III) Nitrate</b> M. W.: 444.47 Assay (Trace metal basis) 99.9999%	<b>5 gm</b> <b>25 gm</b>

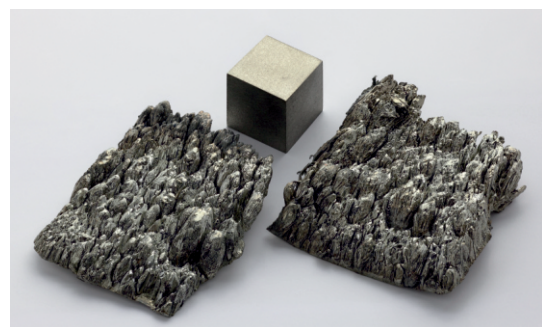
Product Code	Product Name	Packing
<b>RE2545</b> Sm <sub>2</sub> O <sub>3</sub> (12060-58-1)	<b>Samarium (III) Oxide</b> M. W.: 348.70 Assay (Trace metal basis) 99.9%	<b>10 gm</b> <b>25 gm</b> <b>100 gm</b> <b>500 gm</b>
<b>RE2550</b> Sm <sub>2</sub> O <sub>3</sub> (12060-58-1)	<b>Samarium (III) Oxide</b> M. W.: 348.70 Assay (Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b> <b>500 gm</b>
<b>RE2555</b> Sm <sub>2</sub> O <sub>3</sub> (12060-58-1)	<b>Samarium (III) Oxide</b> M. W.: 348.70 Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b> <b>100 gm</b>
<b>RE2565</b> Sm <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13465-58-2)	<b>Samarium (III) Sulphate</b> M. W.: 733.03 Assay Assay (Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b>
<b>RE2570</b> Sm <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13465-58-2)	<b>Samarium (III) Sulphate</b> M. W.: 733.03 Assay (Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b>
<b>RE2575</b> Sm <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13465-58-2)	<b>Samarium (III) Sulphate</b> M. W.: 733.03 Assay (Trace metal basis) 99.9999%	<b>5 gm</b> <b>25 gm</b>



## SCANDIUM

Scandium, atomic no.: 21, symbol as Sc, weight at 44.96, is mainly used in ceramics, lasers, phosphors and crystal. Scandium Oxide is suitable for the high index component of UV, AR and bandpass coatings due to its high index value, transparency, and layer hardness make high damage thresholds have been reported for combinations with Silicon Dioxide or Magnesium Fluoride for use in AR.

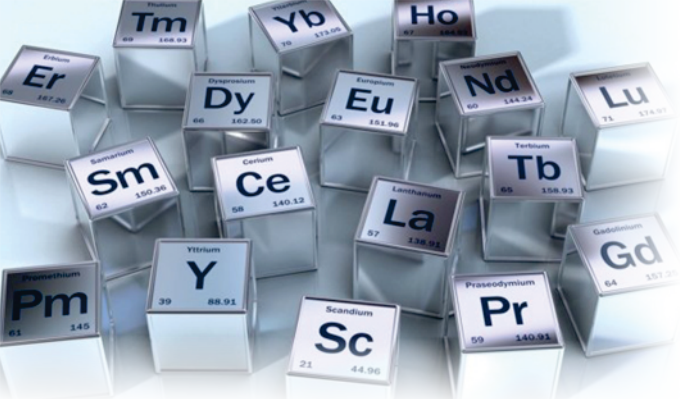
Scandium Metal are widely used in making Scandium-Aluminium alloy.



Product Code	Product Name	Packing
<b>RE2585</b> (7440-20-2)	<b>Scandium Metal Ingot</b> Assay ( Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b>
<b>RE2590</b> (7440-20-2)	<b>Scandium Metal Lump (1cm)</b> Assay ( Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b>
<b>RE2595</b> (7440-20-2)	<b>Scandium Metal Powder 325 mesh</b> Assay ( Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b>
<b>RE2600</b> (7440-20-2)	<b>Scandium Metal Wire 0.1mm</b> Assay ( Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b>
<b>RE2605</b> (7440-20-2)	<b>Scandium Metal Rod 5mmx30cm</b> Assay ( Trace metal basis) 99.99%	<b>1 PC</b>

Product Code	Product Name	Packing
<b>RE2610</b> (7440-20-2)	<b>Scandium Metal Foil 0.25 mmx40cm</b> Assay ( Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE2615</b> (7440-20-2)	<b>Scandium Metal Foil 0.50 mmx40cm</b> Assay ( Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE2620</b> (7440-20-2)	<b>Scandium Metal SLAB 1cmx40cm</b> Assay ( Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE2625</b> (7440-20-2)	<b>Scandium Metal Disc 0.1mmxdia 35cm</b> Assay ( Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE2635</b> Sc(O <sub>2</sub> C <sub>2</sub> H <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (304675-64-7)	<b>Scandium Acetate</b> M. W.: 222.10 (Anhy.) Assay ( Trace metal basis) 99.9%	<b>1 gm</b> <b>5 gm</b>





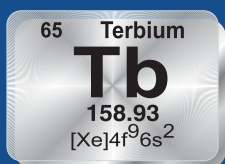
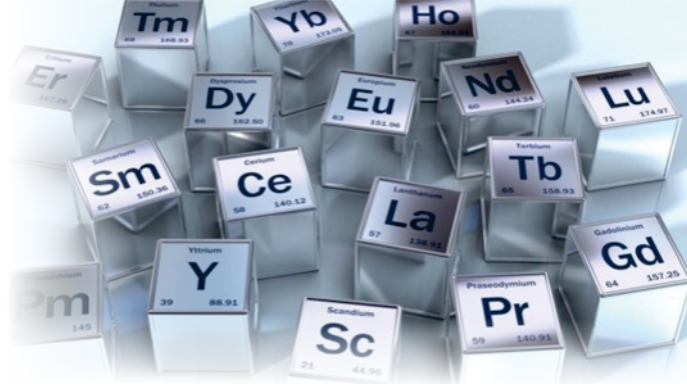
# RARE EARTH METALS

Product Code	Product Name	Packing
<b>RE2640</b> Sc(O <sub>2</sub> C <sub>2</sub> H <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (304675-64-7)	<b>Scandium Acetate</b> M. W.: 222.10 (Anhy.) Assay ( Trace metal basis) 99.99%	1 gm 5 gm
<b>RE2645</b> Sc(O <sub>2</sub> C <sub>2</sub> H <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (304675-64-7)	<b>Scandium Acetate</b> M. W.: 222.10 (Anhy.) Assay ( Trace metal basis) 99.999%	1 gm 5 gm
<b>RE2650</b> Sc(O <sub>2</sub> C <sub>2</sub> H <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (304675-64-7)	<b>Scandium Acetate</b> M. W.: 222.10 (Anhy.) Assay ( Trace metal basis) 99.9999%	1 gm 5 gm
<b>RE2665</b> Sc <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O	<b>Scandium Carbonate</b> M. W.: 269.94 (Anhy.) Assay ( Trace metal basis) 99.99%	1 gm 5 gm
<b>RE2670</b> Sc <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O	<b>Scandium Carbonate</b> M. W.: 269.94 (Anhy.) Assay ( Trace metal basis) 99.999%	1 gm 5 gm
<b>RE2680</b> ScCl <sub>3</sub> .6H <sub>2</sub> O (20662-14-0)	<b>Scandium Chloride</b> M. W.: 259.41 Assay ( Trace metal basis) 99.9%	1 gm 5 gm
<b>RE2685</b> ScCl <sub>3</sub> .6H <sub>2</sub> O (20662-14-0)	<b>Scandium Chloride</b> M. W.: 259.41 Assay ( Trace metal basis) 99.99%	1 gm 5 gm
<b>RE2690</b> ScCl <sub>3</sub> .6H <sub>2</sub> O (20662-14-0)	<b>Scandium Chloride</b> M. W.: 259.41 Assay ( Trace metal basis) 99.999%	1 gm 5 gm
<b>RE2695</b> ScCl <sub>3</sub> .6H <sub>2</sub> O (20662-14-0)	<b>Scandium Chloride</b> M. W.: 259.41 Assay ( Trace metal basis) 99.9999%	1 gm 5 gm
<b>RE2705</b> ScF <sub>3</sub> (13709-47-2)	<b>Scandium Fluoride</b> M. W.: 101.95 Assay ( Trace metal basis) 99.9%	1 gm 10 gm
<b>RE2710</b> ScF <sub>3</sub> (13709-47-2)	<b>Scandium Fluoride</b> M. W.: 101.95 Assay ( Trace metal basis) 99.99%	1 gm 10 gm
<b>RE2715</b> ScF <sub>3</sub> (13709-47-2)	<b>Scandium Fluoride</b> M. W.: 101.95 Assay ( Trace metal basis) 99.999%	5 gm
<b>RE2725</b> Sc(OH) <sub>3</sub> .xH <sub>2</sub> O (17674-34-9)	<b>Scandium Hydroxide</b> M. W.: 95.95 (Anhy.) Assay ( Trace metal basis) 99.9%	5 gm
<b>RE2730</b> Sc(OH) <sub>3</sub> .xH <sub>2</sub> O (17674-34-9)	<b>Scandium Hydroxide</b> M. W.: 95.95 (Anhy.) Assay ( Trace metal basis) 99.99%	5 gm
<b>RE2735</b> Sc(OH) <sub>3</sub> .xH <sub>2</sub> O (17674-34-9)	<b>Scandium Hydroxide</b> M. W.: 95.95 (Anhy.) Assay ( Trace metal basis) 99.999%	5 gm

Product Code	Product Name	Packing
<b>RE2745</b> ScI <sub>3</sub> (14474-33-0)	<b>Scandium Iodide</b> M. W.: 425.67 Assay ( Trace metal basis) 99.95%	1 gm 5 gm
<b>RE2755</b> Sc(NO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (107552-14-7)	<b>Scandium Nitrate</b> M. W.: 230.97 (Anhy.) Assay ( Trace metal basis) 99.9%	1 gm 5 gm
<b>RE2760</b> Sc(NO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (107552-14-7)	<b>Scandium Nitrate</b> M. W.: 230.97 (Anhy.) Assay ( Trace metal basis) 99.99%	1 gm 5 gm
<b>RE2765</b> Sc(NO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (107552-14-7)	<b>Scandium Nitrate</b> M. W.: 230.97 (Anhy.) Assay ( Trace metal basis) 99.999%	1 gm 5 gm
<b>RE2770</b> Sc(NO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (107552-14-7)	<b>Scandium Nitrate</b> M. W.: 230.97 (Anhy.) Assay ( Trace metal basis) 99.9999%	1 gm 5 gm
<b>RE2785</b> Sc <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .XH <sub>2</sub> O (17926-77-1)	<b>Scandium Oxalate</b> M. W.: 353.97 (Anhy.) Assay ( Trace metal basis) 99.99%	1 gm 5 gm
<b>RE2790</b> Sc <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .XH <sub>2</sub> O (17926-77-1)	<b>Scandium Oxalate</b> M. W.: 353.97 (Anhy.) Assay (Trace metal basis) 99.999%	1 gm 5 gm
<b>RE2795</b> Sc <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .XH <sub>2</sub> O (17926-77-1)	<b>Scandium Oxalate</b> M. W.: 353.97 (Anhy.) Assay (Trace metal basis) 99.9999%	1 gm 5 gm
<b>RE2805</b> Sc <sub>2</sub> O <sub>3</sub> (12060-08-1)	<b>Scandium Oxide</b> M. W.: 137.91 Assay (Trace metal basis) 99.9%	1 gm 5 gm
<b>RE2810</b> Sc <sub>2</sub> O <sub>3</sub> (12060-08-1)	<b>Scandium Oxide</b> M. W.: 137.91 Assay (Trace metal basis) 99.99%	1 gm 5 gm
<b>RE2815</b> Sc <sub>2</sub> O <sub>3</sub> (12060-08-1)	<b>Scandium Oxide</b> M. W.: 137.91 Assay (Trace metal basis) 99.999%	1 gm 5 gm
<b>RE2820</b> Sc <sub>2</sub> O <sub>3</sub> (12060-08-1)	<b>Scandium Oxide</b> M. W.: 137.91 Assay (Trace metal basis) 99.9999%	1 gm 5 gm
<b>RE2830</b> Sc <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (52788-54-2)	<b>Scandium Sulphate</b> M. W.: 522.22 Assay (Trace metal basis) 99.9%	1 gm 10 gm
<b>RE2835</b> Sc <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (52788-54-2)	<b>Scandium Sulphate</b> M. W.: 522.22 Assay (Trace metal basis) 99.99%	1 gm 5 gm
<b>RE2840</b> Sc <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (52788-54-2)	<b>Scandium Sulphate</b> M. W.: 522.22 Assay (Trace metal basis) 99.999%	1 gm 5 gm



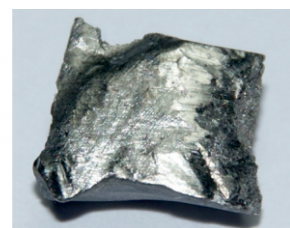
# RARE EARTH METALS



## TERBIUM

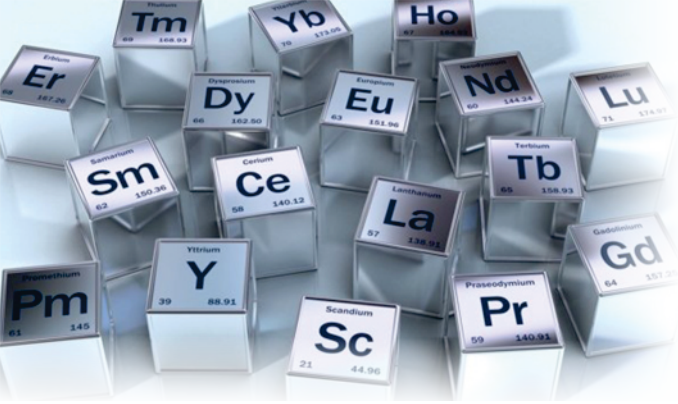
Terbium, atomic no.: 65, symbol as Tb, weight at 158.93, is primarily used in phosphors, particularly in fluorescent lamps and as the high intensity green emitter used in projection televisions, such as the Yttrium-Aluminum-Garnet (Tb:YAG) variety.

Terbium responds efficiently to x-ray excitation and is, therefore, used as an x-ray phosphor. Terbium alloys are also used in magneto-optic recording films, such as TbFeCo

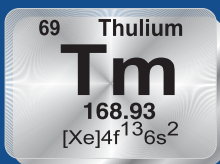


Product Code	Product Name	Packing
<b>RE2850</b> Tb (7440-27-9)	<b>Terbium Metal Ingot</b> M. W. : 158.93 Assay (Trace metal basis) 99.99%	<b>2 gm</b> <b>10 gm</b>
<b>RE2855</b> Tb (7440-27-9)	<b>Terbium Metal Lump (1cm)</b> M. W. : 158.93 Assay (Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b>
<b>RE2860</b> Tb (7440-27-9)	<b>Terbium Metal Powder 325 mesh</b> M. W. : 158.93 Assay (Trace metal basis) 99.9%	<b>1 gm</b> <b>5 gm</b>
<b>RE2862</b> Tb (7440-27-9)	<b>Terbium Metal Wire (0.1 mm)</b> M. W. : 158.93	<b>1 gm</b> <b>5 gm</b>
<b>RE2865</b> Tb (7440-27-9)	<b>Terbium Metal Rod (5mmx30cm)</b> M. W. : 158.93 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE2870</b> Tb (7440-27-9)	<b>Terbium Metal Foil (0.25mmx40cm)</b> M. W. : 158.93 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE2875</b> Tb (7440-27-9)	<b>Terbium Metal Foil (0.50mmx40cm)</b> M. W. : 158.93 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE2880</b> Tb (7440-27-9)	<b>Terbium Metal SLAB (1cmx40cm)</b> M. W. : 158.93 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE2885</b> Tb (7440-27-9)	<b>Terbium Metal Disc (0.1mmx Dia 35cm)</b> M. W. : 158.93 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE2900</b> Tb(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .xH <sub>2</sub> O (100587-92-6)	<b>Terbium Acetate</b> M. W.: 336.06 (Anhy.) Assay (Trace metal basis) 99.9%	<b>10 gm</b> <b>50 gm</b>
<b>RE2905</b> Tb(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .xH <sub>2</sub> O (100587-92-6)	<b>Terbium Acetate</b> M. W.: 336.06 (Anhy.) Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE2910</b> Tb(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .xH <sub>2</sub> O (100587-92-6)	<b>Terbium Acetate</b> M. W.: 336.06 (Anhy.) Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE2925</b> Tb <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (100587-96-0)	<b>Terbium Carbonate</b> M. W.: 497.88 (Anhy.) Assay (Trace metal basis) 99.9%	<b>10 gm</b> <b>50 gm</b>
<b>RE2930</b> Tb <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (100587-96-0)	<b>Terbium Carbonate</b> M. W.: 497.88 (Anhy.) Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>

Product Code	Product Name	Packing
<b>RE2935</b> Tb <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (100587-96-0)	<b>Terbium Carbonate</b> M. W.: 497.88 (Anhy.) Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE2950</b> TbCl <sub>3</sub> .6H <sub>2</sub> O (13798-24-8)	<b>Terbium Chloride</b> M. W.: 373.38 Assay (Trace metal basis) 99.9%	<b>10 gm</b> <b>50 gm</b>
<b>RE2955</b> TbCl <sub>3</sub> .6H <sub>2</sub> O (13798-24-8)	<b>Terbium Chloride</b> M. W.: 373.38 Assay (Trace metal basis) 99.99%	<b>10 gm</b> <b>50 gm</b>
<b>RE2960</b> TbCl <sub>3</sub> .6H <sub>2</sub> O (13798-24-8)	<b>Terbium Chloride</b> M. W.: 373.38 Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE2975</b> Tb(NO <sub>3</sub> ) <sub>3</sub> .5H <sub>2</sub> O (57584-27-7)	<b>Terbium Nitrate</b> M. W.: 435.02 Assay (Trace metal basis) 99.9%	<b>5 gm</b> <b>50 gm</b>
<b>RE2980</b> Tb(NO <sub>3</sub> ) <sub>3</sub> .5H <sub>2</sub> O (57584-27-7)	<b>Terbium Nitrate</b> M. W.: 435.02 Assay (Trace metal basis) 99.99%	<b>10 gm</b>
<b>RE2985</b> Tb(NO <sub>3</sub> ) <sub>3</sub> .5H <sub>2</sub> O (57584-27-7)	<b>Terbium Nitrate</b> M. W.: 435.02 Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE3000</b> Tb <sub>4</sub> O <sub>7</sub> (12037-01-3)	<b>Terbium Oxide</b> M. W.: 747.69 Assay (Trace metal basis) 99.9%	<b>1 gm</b> <b>5 gm</b> <b>10 gm</b> <b>50 gm</b> <b>250 gm</b> <b>1 kg</b>
<b>RE3005</b> Tb <sub>4</sub> O <sub>7</sub> (12037-01-3)	<b>Terbium Oxide</b> M. W.: 747.69 Assay (Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b> <b>250 gm</b>
<b>RE3010</b> Tb <sub>4</sub> O <sub>7</sub> (12037-01-3)	<b>Terbium Oxide</b> M. W.: 747.69 Assay (Trace metal basis) 99.999%	<b>1 gm</b> <b>5 gm</b> <b>25 gm</b> <b>250 gm</b>
<b>RE3025</b> Tb <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13842-67-6)	<b>Terbium Sulphate</b> M. W.: 750.16 Assay (Trace metal basis) 99.9%	<b>5 gm</b> <b>50 gm</b>
<b>RE3030</b> Tb <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13842-67-6)	<b>Terbium Sulphate</b> M. W.: 750.16 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE3035</b> Tb <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13842-67-6)	<b>Terbium Sulphate</b> M. W.: 750.16 Assay (Trace metal basis) 99.999%	<b>10 gm</b> <b>50 gm</b>



# RARE EARTH METALS



## THULIUM

Thulium, atomic no.: 69, symbol as Tm, weight at 168.93, products are mainly used in making crystal and lasers.

An important application of the thulium in the Medicine area, and relatively independent of its high cost, is the production of portable X-ray sources. These sources are available for about one year, as tools in medical and dental diagnosis, as well as to detect defects in mechanical and electronic inaccessible components.

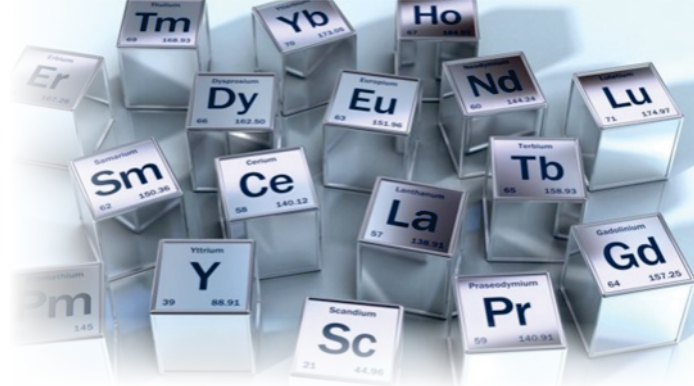


Product Code	Product Name	Packing
<b>RE3045</b> Tm (7440-30-4)	<b>Thulium Metal Ingot</b> M. W.: 168.93 Assay (Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b>
<b>RE3050</b> Tm (7440-30-4)	<b>Thulium Metal Lump (1 cm)</b> M. W.: 168.93 Assay (Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b>
<b>RE3055</b> Tm (7440-30-4)	<b>Thulium Metal Powder 325 mesh</b> M. W.: 168.93 Assay (Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b>
<b>RE3060</b> Tm (7440-30-4)	<b>Thulium Metal Wire (0.1mm)</b> M. W.: 168.93 Assay (Trace metal basis) 99.99%	<b>5 gm</b>
<b>RE3065</b> Tm (7440-30-4)	<b>Thulium Metal Rod (5cmx30cm)</b> M. W.: 168.93 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE3070</b> Tm (7440-30-4)	<b>Thulium Metal Foil (0.25mmx40cm)</b> M. W.: 168.93 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE3075</b> Tm (7440-30-4)	<b>Thulium Metal Foil (0.50mmx40cm)</b> M. W.: 168.93 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE3080</b> Tm (7440-30-4)	<b>Thulium Metal SLAB (1cmx40cm)</b> M. W.: 168.93 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE3085</b> Tm (7440-30-4)	<b>Thulium Metal Disc (0.1mmxdia35cm)</b> M. W.: 168.93 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE3095</b> Tm(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .xH <sub>2</sub> O (207738-11-2)	<b>Thulium (III) Acetate</b> M. W.: 346.07 (Anhy.) Assay (Trace metal basis) 99.9%	<b>1 gm</b> <b>5 gm</b> <b>100 gm</b>
<b>RE3100</b> Tm(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .xH <sub>2</sub> O (207738-11-2)	<b>Thulium (III) Acetate</b> M. W.: 346.07 (Anhy.) Assay(Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>

Product Code	Product Name	Packing
<b>RE3105</b> Tm(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .xH <sub>2</sub> O (207738-11-2)	<b>Thulium (III) Acetate</b> M. W.: 346.07 (Anhy.) Assay(Trace metal basis) 99.999%	<b>1 gm</b> <b>25 gm</b>
<b>RE3110</b> Tm(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .xH <sub>2</sub> O (207738-11-2)	<b>Thulium (III) Acetate</b> M. W.: 346.07 (Anhy.) Assay (Trace metal basis) 99.9999%	<b>1 gm</b> <b>25 gm</b>
<b>RE3114</b> Tm <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (87198-17-2)	<b>Thulium (III) Carbonate</b> M. W.: 517.90. (Anhy.) Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE3116</b> Tm <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (87198-17-2)	<b>Thulium (III) Carbonate</b> M. W.: 517.90. (Anhy.) Assay (Trace metal basis) 99.999%	<b>1 gm</b> <b>25 gm</b>
<b>RE3118</b> Tm <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (87198-17-2)	<b>Thulium (III) Carbonate</b> M. W.: 517.90. (Anhy.) Assay (Trace metal basis) 99.9999%	<b>1 gm</b> <b>25 gm</b>
<b>RE3120</b> TmCl <sub>3</sub> (13537-18-3)	<b>Thulium (III) Chloride</b> M. W.: 275.29 Assay (Trace metal basis) 99.9%	<b>2 gm</b> <b>10 gm</b>
<b>RE3125</b> TmCl <sub>3</sub> (13537-18-3)	<b>Thulium (III) Chloride</b> M. W.: 275.29 Assay (Trace metal basis) 99.99%	<b>2 gm</b> <b>10 gm</b>
<b>RE3130</b> TmCl <sub>3</sub> (13537-18-3)	<b>Thulium (III) Chloride</b> M. W.: 275.29 Assay (Trace metal basis) 99.999%	<b>2 gm</b> <b>10 gm</b>
<b>RE3135</b> TmCl <sub>3</sub> (13537-18-3)	<b>Thulium (III) Chloride</b> M. W.: 275.29 Assay (Trace metal basis) 99.9999%	<b>1 gm</b> <b>25 gm</b>
<b>RE3137</b> TmF <sub>3</sub> (13760-79-7)	<b>Thulium (III) Fluoride</b> M. W.: 225.93 Assay (Trace metal basis) 99.9%	<b>5 gm</b> <b>25 gm</b>
<b>RE3139</b> TmF <sub>3</sub> (13760-79-7)	<b>Thulium (III) Fluoride</b> M. W.: 225.93 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>

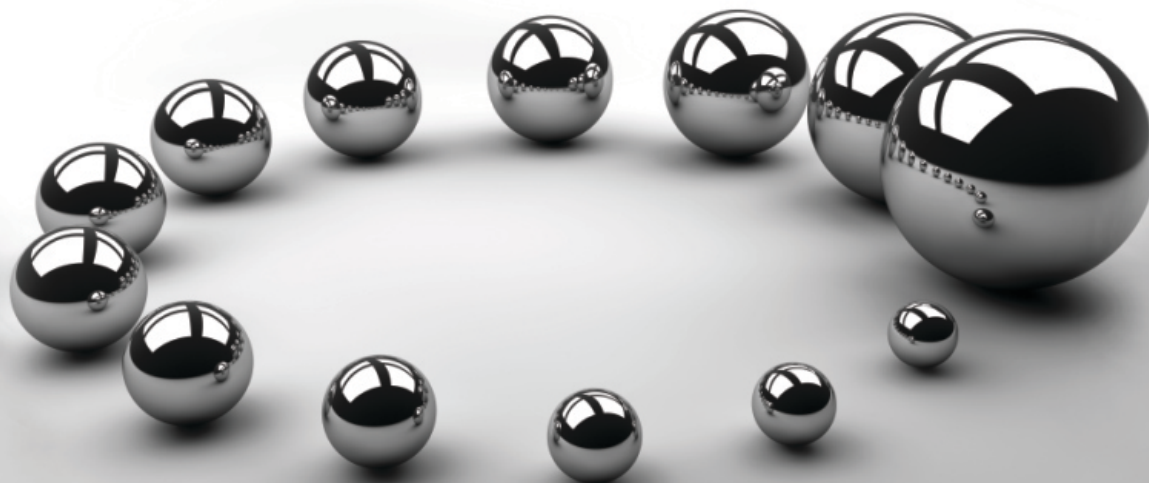


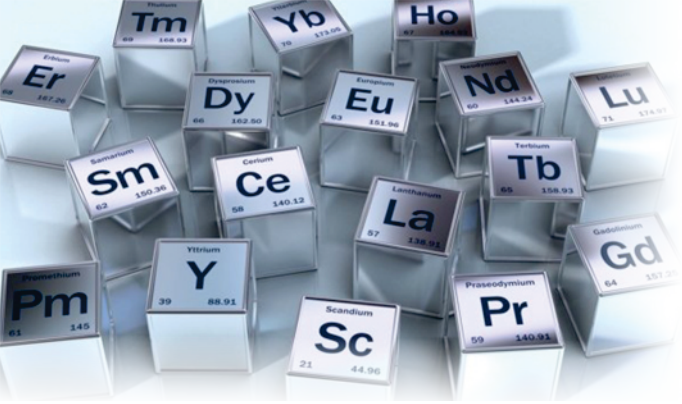
# RARE EARTH METALS



Product Code	Product Name	Packing
<b>RE3141</b> TmF <sub>3</sub> (13760-79-7)	<b>Thulium (III) Fluoride</b> M. W.: 225.93 Assay (Trace metal basis) 99.999%	<b>1 gm</b> <b>25 gm</b>
<b>RE3143</b> TmF <sub>3</sub> (13760-79-7)	<b>Thulium (III) Fluoride</b> M. W.: 225.93 Assay (Trace metal basis) 99.9999%	<b>1 gm</b> <b>25 gm</b>
<b>RE3145</b> TmI <sub>3</sub> (13813-43-9)	<b>Thulium (III) Iodide</b> M. W.: 549.65 Assay (Trace metal basis) 99.95%	<b>1 gm</b> <b>5 gm</b>
<b>RE3155</b> Tm(NO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O	<b>Thulium (III) Nitrate</b> M. W.: 354.95 (Anhy.) Assay (Trace metal basis) 99.9%	<b>10 gm</b> <b>50 gm</b>
<b>RE3160</b> Tm(NO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O	<b>Thulium (III) Nitrate</b> M. W.: 354.95 (Anhy.) Assay (Trace metal basis) 99.99%	<b>2 gm</b> <b>10 gm</b>
<b>RE3165</b> Tm(NO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O	<b>Thulium (III) Nitrate</b> M. W.: 354.95 (Anhy.) Assay (Trace metal basis) 99.999%	<b>1 gm</b> <b>25 gm</b>
<b>RE3170</b> Tm(NO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O	<b>Thulium (III) Nitrate</b> M. W.: 354.95 (Anhy.) Assay (Trace metal basis) 99.9999%	<b>1 gm</b> <b>25 gm</b>
<b>RE3172</b> Tm <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .xH <sub>2</sub> O (58176-73-3)	<b>Thulium Oxalate</b> M. W.: 601.93 (Anhy.) Assay (Trace metal basis) 99.9%	<b>5 gm</b> <b>25 gm</b>
<b>RE3174</b> Tm <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .xH <sub>2</sub> O (58176-73-3)	<b>Thulium Oxalate</b> M. W.: 601.93 (Anhy.) Assay (Trace metal basis) 99.99%	<b>1 gm</b> <b>25 gm</b>

Product Code	Product Name	Packing
<b>RE3176</b> Tm <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .xH <sub>2</sub> O (58176-73-3)	<b>Thulium Oxalate</b> M. W.: 601.93 (Anhy.) Assay (Trace metal basis) 99.999%	<b>1 gm</b> <b>25 gm</b>
<b>RE3178</b> Tm <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .xH <sub>2</sub> O (58176-73-3)	<b>Thulium Oxalate</b> M. W.: 601.93 (Anhy.) Assay (Trace metal basis) 99.9999%	<b>1 gm</b> <b>25 gm</b>
<b>RE3180</b> Tm <sub>2</sub> O <sub>3</sub> (12036-44-1)	<b>Thulium Oxide</b> M. W.: 385.88 Assay (Trace metal basis) 99.9%	<b>10 gm</b> <b>50 gm</b>
<b>RE3185</b> Tm <sub>2</sub> O <sub>3</sub> (12036-44-1)	<b>Thulium Oxide</b> M. W.: 385.88 Assay (Trace metal basis) 99.99%	<b>2 gm</b> <b>10 gm</b>
<b>RE3190</b> Tm <sub>2</sub> O <sub>3</sub> (12036-44-1)	<b>Thulium Oxide</b> M. W.: 385.88 Assay (Trace metal basis) 99.999%	<b>1 gm</b> <b>5 gm</b>
<b>RE3195</b> Tm <sub>2</sub> O <sub>3</sub> (12036-44-1)	<b>Thulium Oxide</b> M. W.: 385.88 Assay (Trace metal basis) 99.9999%	<b>1 gm</b> <b>10 gm</b>
<b>RE3205</b> Tm <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13778-40-0)	<b>Thulium Sulphate</b> M. W.: 770.18 Assay (Trace metal basis) 99.9%	<b>1 gm</b> <b>5 gm</b>
<b>RE3210</b> Tm <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13778-40-0)	<b>Thulium Sulphate</b> M. W.: 770.18 Assay (Trace metal basis) 99.99%	<b>1 gm</b> <b>5 gm</b>
<b>RE3215</b> Tm <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .8H <sub>2</sub> O (13778-40-0)	<b>Thulium Sulphate</b> M. W.: 770.18 Assay (Trace metal basis) 99.999%	<b>1 gm</b> <b>25 gm</b>





# RARE EARTH METALS

70 Ytterbium  
**Yb**  
 173.04  
 $[Xe]4f^{14}6s^2$

## YTTERBIUM

Ytterbium, atomic no.: 70, symbol as Yb, weight at 173.04, is being applied to numerous fiber amplifier and fiber optic technologies and in various lasing applications.

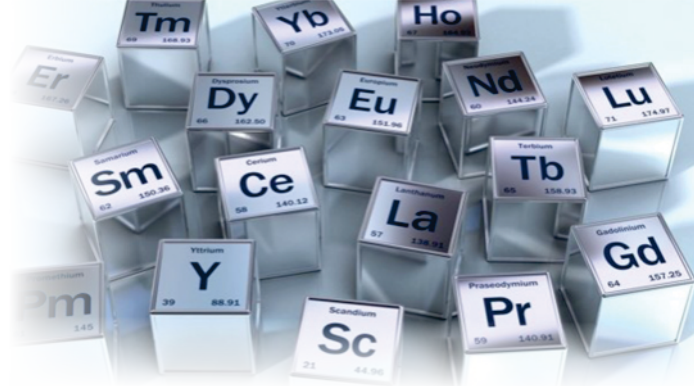
Ytterbium metal increases its electrical resistance when subjected to very high stresses. This property is used in stress gauges for monitoring ground deformations from earthquakes and nuclear explosions. Ytterbium can also be used as a dopant to help improve the grain refinement, strength, and other mechanical properties of stainless steel. Some Ytterbium alloys have rarely been used in dentistry.



Product Code	Product Name	Packing
<b>RE3225</b> Yb (7440-64-4)	<b>Ytterbium Metal Ingot</b> M. W.: 173.04 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE3230</b> Yb (7440-64-4)	<b>Ytterbium Metal Lump</b> M. W.: 173.04 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE3235</b> Yb (7440-64-4)	<b>Ytterbium Metal Powder 325 mesh</b> M. W.: 173.04 Assay (Trace metal basis) 99.9%	<b>2 gm</b> <b>25 gm</b>
<b>RE3537</b> Yb (7440-64-4)	<b>Ytterbium Metal Wire (0.1 mm)</b> M. W.: 173.04 Assay (Trace metal basis) 99.9%	<b>5 gm</b>
<b>RE3240</b> Yb (7440-64-4)	<b>Ytterbium Metal Rod (5cmx30cm)</b> M. W.: 173.04 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE3245</b> Yb (7440-64-4)	<b>Ytterbium Metal Foil (0.25mmx40cm)</b> M. W.: 173.04 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE3250</b> Yb (7440-64-4)	<b>Ytterbium Metal Foil (0.50mmx40cm)</b> M. W.: 173.04 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE3255</b> Yb (7440-64-4)	<b>Ytterbium Metal SLAB 1 cmx40cm</b> M. W.: 173.04 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE3260</b> Yb (7440-64-4)	<b>Ytterbium Metal Disc (0.1mmxdia 35cm)</b> M. W.: 173.04 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE3270</b> Yb(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .4H <sub>2</sub> O (15280-58-7)	<b>Ytterbium Acetate</b> M. W.: 422.23 Assay (Trace metal basis) 99.9%	<b>10 gm</b> <b>50 gm</b>
<b>RE3275</b> Yb(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .4H <sub>2</sub> O (15280-58-7)	<b>Ytterbium Acetate</b> M. W.: 422.23 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>100 gm</b>

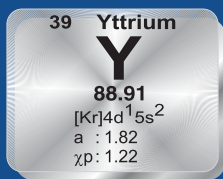
Product Code	Product Name	Packing
<b>RE3280</b> Yb(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .4H <sub>2</sub> O (15280-58-7)	<b>Ytterbium Acetate</b> M. W.: 422.23 Assay (Trace metal basis) 99.999%	<b>2 gm</b> <b>100 gm</b>
<b>RE3285</b> Yb(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .4H <sub>2</sub> O (15280-58-7)	<b>Ytterbium Acetate</b> M. W.: 422.23 Assay (Trace metal basis) 99.9999%	<b>2 gm</b> <b>100 gm</b>
<b>RE3295</b> Yb <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (64360-98-1)	<b>Ytterbium Carbonate</b> M. W.: 526.11 (Anhy.) Assay (Trace metal basis) 99.9%	<b>10 gm</b> <b>50 gm</b>
<b>RE3300</b> Yb <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (64360-98-1)	<b>Ytterbium Carbonate</b> M. W.: 526.11 (Anhy.) Assay (Trace metal basis) 99.99%	<b>10 gm</b> <b>50 gm</b>
<b>RE3305</b> Yb <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (64360-98-1)	<b>Ytterbium Carbonate</b> M. W.: 526.11 (Anhy.) Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE3310</b> Yb <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .XH <sub>2</sub> O (64360-98-1)	<b>Ytterbium Carbonate</b> M. W.: 526.11 (Anhy.) Assay (Trace metal basis) 99.9999%	<b>5 gm</b> <b>25 gm</b>
<b>RE3320</b> YbCl <sub>3</sub> .6H <sub>2</sub> O (10035-01-5)	<b>Ytterbium Chloride</b> M. W.: 387.49 Assay (Trace metal basis) 99.9%	<b>25 gm</b> <b>100 gm</b>
<b>RE3325</b> YbCl <sub>3</sub> .6H <sub>2</sub> O (10035-01-5)	<b>Ytterbium Chloride</b> M. W.: 387.49 Assay (Trace metal basis) 99.99%	<b>10 gm</b> <b>50 gm</b>
<b>RE3330</b> YbCl <sub>3</sub> .6H <sub>2</sub> O (10035-01-5)	<b>Ytterbium Chloride</b> M. W.: 387.49 Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE3335</b> YbCl <sub>3</sub> .6H <sub>2</sub> O (10035-01-5)	<b>Ytterbium Chloride</b> M. W.: 387.49 Assay (Trace metal basis) 99.9999%	<b>5 gm</b> <b>25 gm</b>

# RARE EARTH METALS



Product Code	Product Name	Packing
<b>RE3345</b> YbF <sub>3</sub> (13760-80-0)	<b>Ytterbium (III) Fluoride Anhydrous</b> M. W.: 230.04	<b>10 gm</b>
<b>RE3355</b> YbI <sub>3</sub>	<b>Ytterbium Iodide</b> M. W.: 533.74 Assay (Trace metal basis) 99.95%	<b>5 gm</b> <b>25 gm</b>
<b>RE3365</b> Yb(NO) <sub>3</sub> .XH <sub>2</sub> O	<b>Ytterbium Nitrate</b> M. W.: 359.05 (Anhy.) Assay (Trace metal basis) 99.9%	<b>10 gm</b> <b>100 gm</b>
<b>RE3370</b> Yb(NO) <sub>3</sub> .XH <sub>2</sub> O	<b>Ytterbium Nitrate</b> M. W.: 359.05 (Anhy.) Assay (Trace metal basis) 99.99%	<b>10 gm</b> <b>50 gm</b>
<b>RE3375</b> Yb(NO) <sub>3</sub> .XH <sub>2</sub> O	<b>Ytterbium Nitrate</b> M. W.: 359.05 (Anhy.) Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>

Product Code	Product Name	Packing
<b>RE3380</b> Yb(NO) <sub>3</sub> .XH <sub>2</sub> O	<b>Ytterbium Nitrate</b> M. W.: 359.05 (Anhy.) Assay (Trace metal basis) 99.9999%	<b>2 gm</b> <b>25 gm</b>
<b>RE3390</b> Yb <sub>2</sub> O <sub>3</sub> (1314-37-0)	<b>Ytterbium Oxide</b> M. W.: 394.08 Assay (Trace metal basis) 99.9%	<b>25 gm</b> <b>100 gm</b> <b>1 kg</b>
<b>RE3395</b> Yb <sub>2</sub> O <sub>3</sub> (1314-37-0)	<b>Ytterbium Oxide</b> M. W.: 394.08 Assay (Trace metal basis) 99.99%	<b>10 gm</b> <b>50 gm</b>
<b>RE3400</b> Yb <sub>2</sub> O <sub>3</sub> (1314-37-0)	<b>Ytterbium Oxide</b> M. W.: 394.08 Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE3405</b> Yb <sub>2</sub> O <sub>3</sub> (1314-37-0)	<b>Ytterbium Oxide</b> M. W.: 394.08 Assay (Trace metal basis) 99.9999%	<b>2 gm</b> <b>25 gm</b>

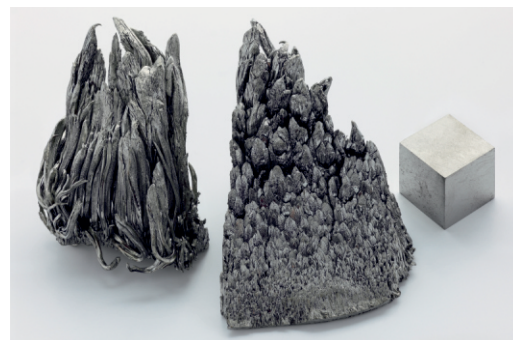


## YTTRIUM

Yttrium, atomic no.: 39, symbol as Y, weight at 88.91, has the highest thermo-dynamic affinity for oxygen of any element, this characteristic is the basis for many of its applications. While not part of the rare earth series, it resembles the heavy rare earths which are sometimes referred to as the Yttrics for this reason.

Another unique characteristic derives from its ability to form crystals with useful properties.

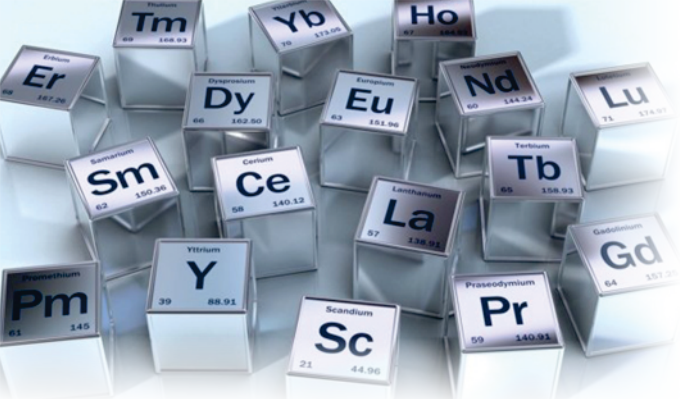
Some of the many applications of Yttrium include in ceramics for crucibles for molten reactive metals, in florescent lighting phosphors, computer displays and automotive fuel consumption sensors.



Product Code	Product Name	Packing
<b>RE3435</b> Y (7440-65-5)	<b>Yttrium Metal Ingot</b> M. W.: 88.91 Assay (Trace metal basis) 99.99%	<b>10 gm</b> <b>50 gm</b>
<b>RE3440</b> Y (7440-65-5)	<b>Yttrium Metal Lump (1 cm)</b> M. W.: 88.91 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE3445</b> Y (7440-65-5)	<b>Yttrium Metal Powder 325 mesh</b> M. W.: 88.91 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE3450</b> Y (7440-65-5)	<b>Yttrium Metal Rod (5 cmx30 cm)</b> M. W.: 88.91 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE3455</b> Y (7440-65-5)	<b>Yttrium Metal Foil (0.25 mmx40 cm)</b> M. W.: 88.91 Assay (Trace metal basis) 99.99%	<b>1 PC</b>

Product Code	Product Name	Packing
<b>RE3460</b> Y (7440-65-5)	<b>Yttrium Metal Foil (0.50 mmx40 cm)</b> M. W.: 88.91 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE3465</b> Y (7440-65-5)	<b>Yttrium Metal SLAB (1 cmx40 cm)</b> M. W.: 88.91 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE3470</b> Y (7440-65-5)	<b>Yttrium Metal Disc (0.1 mmx dia 35 cm)</b> M. W.: 88.91 Assay (Trace metal basis) 99.99%	<b>1 PC</b>
<b>RE3485</b> Y(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .XH <sub>2</sub> O (304675-69-2)	<b>Yttrium Acetate</b> M. W.: 266.03 (Anhy.) Assay (Trace metal basis) 99.9%	<b>50 gm</b> <b>250 gm</b>
<b>RE3490</b> Y(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .XH <sub>2</sub> O (304675-69-2)	<b>Yttrium Acetate</b> M. W.: 266.03 (Anhy.) Assay (Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b>





# RARE EARTH METALS

Product Code	Product Name	Packing
<b>RE3495</b> Y(CH <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> .xH <sub>2</sub> O (304675-69-2)	<b>Yttrium Acetate</b> M. W.: 266.03 (Anhy.) Assay (Trace metal basis) 99.999%	<b>10 gm</b> <b>100 gm</b>
<b>RE3510</b> Y <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (38245-39-5)	<b>Yttrium Carbonate</b> M. W.: 357.84 (Anhy.) Assay (Trace metal basis) 99.9%	<b>50 gm</b> <b>250 gm</b>
<b>RE3515</b> Y <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (38245-39-5)	<b>Yttrium Carbonate</b> M. W.: 357.84 (Anhy.) Assay (Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b>
<b>RE3520</b> Y <sub>2</sub> (CO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O (38245-39-5)	<b>Yttrium Carbonate</b> M. W.: 357.84 (Anhy.) Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>100 gm</b>
<b>RE3535</b> YCl <sub>3</sub> .6H <sub>2</sub> O (10025-94-2)	<b>Yttrium Chloride</b> M. W.: 303.36 Assay (Trace metal basis) 99.9%	<b>50 gm</b> <b>250 gm</b>
<b>RE3540</b> YCl <sub>3</sub> .6H <sub>2</sub> O (10025-94-2)	<b>Yttrium Chloride</b> M. W.: 303.36 Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b> <b>100 gm</b>
<b>RE3545</b> YCl <sub>3</sub> .6H <sub>2</sub> O (10025-94-2)	<b>Yttrium Chloride</b> M. W.: 303.36 Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE3550</b> YCl <sub>3</sub> .6H <sub>2</sub> O (10025-94-2)	<b>Yttrium Chloride</b> M. W.: 303.36 Assay (Trace metal basis) 99.9999%	<b>2 gm</b> <b>25 gm</b>
<b>RE3560</b> YF <sub>3</sub> (13709-49-4)	<b>Yttrium Fluoride</b> M. W.: 145.9 Assay (Trace metal basis) 99%	<b>25 gm</b> <b>100 gm</b>
<b>RE3565</b> YF <sub>3</sub> (13709-49-4)	<b>Yttrium Fluoride</b> M. W.: 145.9 Assay (Trace metal basis) 99.9%	<b>25 gm</b> <b>100 gm</b> <b>500 gm</b>
<b>RE3570</b> YF <sub>3</sub> (13709-49-4)	<b>Yttrium Fluoride</b> M. W.: 145.9 Assay (Trace metal basis) 99.99%	<b>25 gm</b> <b>100 gm</b> <b>500 gm</b>
<b>RE3575</b> YF <sub>3</sub> (13709-49-4)	<b>Yttrium Fluoride</b> M. W.: 145.9 Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE3590</b> Y(OH) <sub>3</sub> .xH <sub>2</sub> O	<b>Yttrium Hydroxide</b> M. W.: 139.93 (Anhy.) Assay (Trace metal basis) 99.9%	<b>50 gm</b> <b>250 gm</b>
<b>RE3595</b> Y(OH) <sub>3</sub> .xH <sub>2</sub> O	<b>Yttrium Hydroxide</b> M. W.: 139.93 (Anhy.) Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE3600</b> Y(OH) <sub>3</sub> .xH <sub>2</sub> O	<b>Yttrium Hydroxide</b> M. W.: 139.93 (Anhy.) Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>

Product Code	Product Name	Packing
<b>RE3615</b> Y(NO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O	<b>Yttrium Nitrate</b> M. W.: 274.92 (Anhy.) Assay (Trace metal basis) 99.9%	<b>25 gm</b> <b>100 gm</b>
<b>RE3620</b> Y(NO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O	<b>Yttrium Nitrate</b> M. W.: 274.92 (Anhy.) Assay (Trace metal basis) 99.99%	<b>5 gm</b> <b>25 gm</b>
<b>RE3625</b> Y(NO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O	<b>Yttrium Nitrate</b> M. W.: 274.92 (Anhy.) Assay (Trace metal basis) 99.999%	<b>10 gm</b> <b>50 gm</b>
<b>RE3640</b> Y(C <sub>8</sub> H <sub>15</sub> O <sub>2</sub> ) <sub>2</sub>	<b>Yttrium Octoate</b> M. W.: 374.91 Assay (Trace metal basis) 99.9%	<b>50 gm</b> <b>250 gm</b>
<b>RE3660</b> Y <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .10H <sub>2</sub> O (13266-82-5)	<b>Yttrium Oxalate</b> M. W.: 622.02 Assay (Trace metal basis) 99.9%	<b>50 gm</b> <b>250 gm</b>
<b>RE3665</b> Y <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .10H <sub>2</sub> O (13266-82-5)	<b>Yttrium Oxalate</b> M. W.: 622.02 Assay (Trace metal basis) 99.99%	<b>25 gm</b>
<b>RE3670</b> Y <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> .10H <sub>2</sub> O (13266-82-5)	<b>Yttrium Oxalate</b> M. W.: 622.02 Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>
<b>RE3685</b> Y <sub>2</sub> O <sub>3</sub> (1314-36-9)	<b>Yttrium Oxide</b> M. W.: 225.81 Assay (Trace metal basis) 99.9%	<b>10 gm</b> <b>25 gm</b> <b>250 gm</b> <b>1 kg</b>
<b>RE3690</b> Y <sub>2</sub> O <sub>3</sub> (1314-36-9)	<b>Yttrium Oxide</b> M. W.: 225.81 Assay (Trace metal basis) 99.99%	<b>25 gm</b> <b>250 gm</b> <b>1 kg</b>
<b>RE3695</b> Y <sub>2</sub> O <sub>3</sub> (1314-36-9)	<b>Yttrium Oxide</b> M. W.: 225.81 Assay (Trace metal basis) 99.999%	<b>25 gm</b> <b>100 gm</b> <b>1 kg</b>
<b>RE3700</b> Y <sub>2</sub> O <sub>3</sub> (1314-36-9)	<b>Yttrium Oxide</b> M. W.: 225.81 Assay (Trace metal basis) 99.9999%	<b>10 gm</b> <b>50 gm</b> <b>250 gm</b>
<b>RE3715</b> Y <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .6H <sub>2</sub> O	<b>Yttrium Sulphate</b> M. W.: 574.27 Assay (Trace metal basis) 99.9%	<b>50 gm</b> <b>250 gm</b>
<b>RE3720</b> Y <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .6H <sub>2</sub> O	<b>Yttrium Sulphate</b> M. W.: 574.27 Assay (Trace metal basis) 99.99%	<b>25 gm</b> <b>250 gm</b>
<b>RE3725</b> Y <sub>2</sub> (SO <sub>4</sub> ) <sub>3</sub> .6H <sub>2</sub> O	<b>Yttrium Sulphate</b> M. W.: 574.27 Assay (Trace metal basis) 99.999%	<b>5 gm</b> <b>25 gm</b>



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