

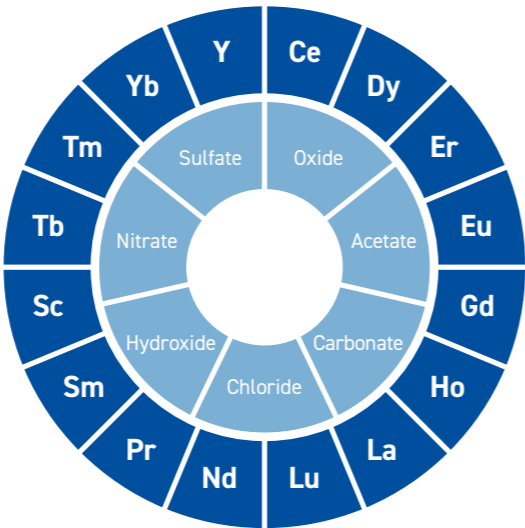
High-performance chemical and mineral specialties. Since 1894.

The background of the slide is a top-down view of several glass petri dishes arranged on a light gray surface. Each dish contains a different colored powder: a large dish in the center-left has a bright blue powder; a dish at the top has a yellow powder; a dish on the right has a light green powder; a dish at the bottom has a pink powder; and a dish at the bottom-left has a white powder. A semi-transparent red circle is overlaid on the right side of the image, containing the text 'Rare Earth Metal Salts and Specialty Minerals Product Range'.

**Rare Earth
Metal Salts and
Specialty Minerals
Product Range**

Rare Earth Metal Salts and Specialty Minerals

- Comprehensive range of high-purity salts
- Unique range of 16 rare earth metals with 7 salt combinations
- Long-standing supplier relationships
- Variety of purities and delivery forms (powders, nano powders, aqueous solutions)
- Full support of regulatory services



Rare earth metal salts

Metal	Oxide	Acetate	Carbonate	Chloride	Hydroxide	Nitrate	Sulfate	Available purity range
Cerium	● ○	● ●	●	● ●	●	● ●	●	2N-5N
Dysprosium	● ○	● ●	●	● ●	●	● ●	●	2N-5N
Erbium	● ○	● ●	●	● ●	●	● ●	●	2N-5N
Europium	● ○	● ●	●	● ●	●	● ●	●	2N-5N
Gadolinium	● ○	● ●	●	● ●	●	● ●	●	2N-5N
Holmium	● ○	● ●	●	● ●	●	● ●	●	2N-5N
Lanthanum	● ○	● ●	●	● ●	●	● ●	●	2N-5N
Lutetium	● ○	● ●	●	●	●	● ●	●	3N-5N
Neodymium	● ○	● ●	●	● ●	●	● ●	●	2N-5N
Praseodymium	● ○	● ●	●	●	●	●	●	2N-5N
Samarium	● ○	● ●	●	● ●	●	● ●	●	2N-5N
Scandium	● ○	● ●	●	● ●	●	● ●	●	2N-5N
Terbium	● ○	● ●	●	● ●	●	● ●	●	2N-5N
Thulium	● ○	● ●	●	● ●	●	● ●	●	2N-5N
Ytterbium	● ○	● ●	●	● ●	●	● ●	●	2N-5N
Yttrium	● ○	● ●	●	● ●	●	● ●	●	2N-5N

Available as: ● Powder
● Aqueous solutions with available salt contents between 2%–45%
○ Nano powder particle size < 50 nm

Please ask us for tailor-made rare earth compounds.



Talk to our experts.

Scan the code for contact details.

Specialty minerals

Minerals / Salts	Available purity range
Minerals	
Aluminum oxide	2N-5N
Gallium oxide	2N-7N
Niobium oxide	2N-4N
Hafnium oxide	3N
Lithium salts	
Lithium carbonate*	min. 98%
Lithium hydroxide	min. 98% (LiOH min. 56%)
Titanates	
Barium titanate	min. 99%
Calcium titanate	min. 97%
Potassium titanate	min. 95%
Others	
Barium ferrite	min. 96%

* Grade: Technical, technical fine, technical crystals

For our comprehensive magnesia and magnesium compounds, please refer to our LUVOMAG® range. For our zirconia and zirconium salts, please ask for our LUVOZIRC® range.

Packaging and logistics

We offer a wide variety of packaging solutions. Please contact us for individual solutions. Our numerous warehousing and logistics operators are audited and certified according to the applicable standards.

Quality

Certified according to ISO 9001 and ISO 14001.

Wherever required, our products are REACH registered. For more than 20 substances, Lehmann&Voss&Co. acts as a lead or co-registrant. Expanding the volume bands or additional registrations are available as a service on request. We are happy to assist you with similar regulations such as UK-REACH, KKDIK or K-REACH.

“Nines” purity notation

Notation	Purity	Impurities	
N	> 90%	< 10%	
2N	> 99%	< 1%	
2N5	> 99.5%	< 0.5%	
3N	> 99.9%	< 0.1%	
4N	> 99.99%	< 0.01%	< 100 ppm
5N	> 99.999%	< 0.001%	< 10 ppm
6N	> 99.9999%	< 0.0001%	< 1 ppm
7N	> 99.99999%	< 0.00001%	< 0.1 ppm

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