

## CERIUM OXIDE CeO<sub>2</sub>

### Properties

Brown to beige powder

### Application

- Colouring and decolourising glass
- Stabiliser in spectacle lenses and television tubes, nuclear technology and special areas
- Refractory ceramics
- Conductive/non-conductive ceramics
- Opacifying agent for enamel
- Oxidizing agent
- In catalysts for various applications
- Reflectors for car headlights
- Drying catalysts for paint and varnish
- Stabiliser for pigments
- Doping agent for carbon arc cores
- Electronics industry



### Chemical analysis

	95,0 %	98,0 %	99,0 %
<b>Material base</b>			
TREO*	min. 98,0 %	min. 98,0 %	min. 99,0 %
L.O.I., 1000°C	max. 2,0 %	max. 2,0 %	max. 1,0 %
Fe <sub>2</sub> O <sub>3</sub>	< 0,2 %	< 500 ppm	< 300 ppm
Cr <sub>2</sub> O <sub>3</sub>	< 20 ppm	< 10 ppm	< 5 ppm
CuO	< 20 ppm	< 10 ppm	< 5 ppm
Co <sub>3</sub> O <sub>4</sub>	< 20 ppm	< 10 ppm	< 5 ppm
NiO	< 20 ppm	< 10 ppm	< 5 ppm
<b>TREO base</b>			
CeO <sub>2</sub>	min. 95,0 %	min. 98,0 %	min. 99,0 %
Total remaining RE-Oxides	max. 5,0 %	max. 2,0 %	max. 1,0 %

\*TREO = Total Rare Earth Oxide

### Physical parameter

PSD d50	(Microtrac)	typ. 8 – 30 µ
---------	-------------	---------------

### Packing

- Plastic boxes with 1, 5 or 10 kgs net
- Plastic or steeldrums with 25 kgs resp. 50 kgs net
- BigBags with 500 resp. 1.000 kgs net
- Other packing on request

## CERIUM OXIDE CeO<sub>2</sub>

### Properties

White to yellow powder

### Application

- Colouring and decolourising glass
- Stabiliser in spectacle lenses and television tubes, nuclear technology and special areas
- Refractory ceramics
- Conductive/non-conductive ceramics
- Opacifying agent for enamels
- Oxidizing agent
- In catalysts for various applications
- Reflectors for car headlights
- Drying catalysts for paint and varnish
- Stabiliser for pigments
- Doping agent for carbon arc cores
- Electronics industry
- Incandescent mantles for gas lightning



### Chemical analysis

	99,95 % yellow	99,99 %	99,95 % white
<b>Material base</b>			
TREO*	min. 99,0 %	min. 99,0 %	min. 99,0 %
L.O.I., 1000°C	max. 1,0 %	max. 1,0 %	max. 1,0 %
Fe <sub>2</sub> O <sub>3</sub>	< 200 ppm	< 30 ppm	< 50 ppm
Cr <sub>2</sub> O <sub>3</sub>	< 5 ppm	< 2 ppm	< 3 ppm
CuO	< 5 ppm	< 2 ppm	< 3 ppm
Co <sub>3</sub> O <sub>4</sub>	< 5 ppm	< 2 ppm	< 3 ppm
NiO	< 5 ppm	< 2 ppm	< 3 ppm
<b>TREO base</b>			
CeO <sub>2</sub>	min. 99,95 %	min. 99,99 %	min. 99,95 %
Total remaining RE-Oxides	max. 500 ppm	max. 100 ppm	max. 500 ppm

\*TREO = Total Rare Earth Oxide

### Physical parameter

PSD d50	(Microtrac)	typ. 8 – 30 µm
---------	-------------	----------------

### Packing

- Plastic boxes with 1, 5 or 10 kgs net
- Plastic or steeldrums with 25 kgs resp. 50 kgs net
- BigBags with 500 resp. 1.000 kgs net
- Other packing on request