

■ **IBUpart®**

**Product Portfolio**

HIGH QUALITY MATERIALS FOR  
POLISHING AGENTS, COSMETICS,  
LACQUER APPLICATIONS AND MORE



# IBU-tec

IBU-tec is a leading specialist for rotary kilns, pulsation reactors and thermal process engineering in general. Extensive know-how with materials for a wide variety of end uses comes from over 50 years of experience with polishing agents made from rare earths to colorless UV-absorbing materials and tailor-made catalysts.

## Product Portfolio

### IBUpart® Al<sub>2</sub>O<sub>3</sub> ALUMINIUM(III)-OXIDE

Specific surface area (BET) m <sup>2</sup> /g	Primary particle size (TEM) nm	Agglomerate size (d50) μm	Purity (%)
150 ± 5	20 - 40	0.3 - 0.5	> 99
20 ± 2	n/a	< 10.0	> 99

Potential applications: polishing agents, catalyst supports, ceramics

### IBUpart® CeO<sub>2</sub> CERIUM(IV)-OXIDE

Specific surface area (BET) m <sup>2</sup> /g	Primary particle size (TEM) nm	Agglomerate size (d50) μm	Purity (%)
40 ± 2	15 - 20	10.0 - 20.0	> 99
2 ± 1	n/a	1.5 - 2.0	85 - 98

Potential applications: polishing agents, catalysts, UV-absorbers

### IBUpart® Fe<sub>2</sub>O<sub>3</sub> IRON(III)-OXIDE

Specific surface area (BET) m <sup>2</sup> /g	Primary particle size (TEM) nm	Agglomerate size (d50) μm	Purity (%)
40 ± 2	35 - 40	5.0 - 10.0	> 99

Potential applications: corrosion protection, catalysts, lubricants, battery material

### IBUpart® Y-AlO<sub>3</sub> YTTRIUM-ALUMINIUM-OXIDE

Specific surface area (BET) m <sup>2</sup> /g	Primary particle size (TEM) nm	Agglomerate size (d50) μm	Purity (%)
12 ± 2	100 - 1000	1.0 - 2.0	> 99

Potential applications: light sources, LEDs, lasers

## IBUpart® ZnO

ZINC(II)-OXIDE

Specific surface area (BET) m <sup>2</sup> /g	Primary particle size (TEM) nm	Agglomerate size (d50) µm	Purity (%)
60 ± 5	12 - 15	0.2 - 0.3	> 99
35 ± 2	20 - 25	0.3 - 0.4	> 99
20 ± 2	20 - 50	0.4 - 0.5	> 99

Potential applications: UV-absorbers, pigments, cosmetics, lacquers

## IBUpart® ZrO<sub>2</sub>

ZIRCONIUM(IV)-OXIDE

Specific surface area (BET) m <sup>2</sup> /g	Primary particle size (TEM) nm	Agglomerate size (d50) µm	Purity (%)
70 ± 5	15 - 20	0.3 - 0.5	> 99
30 ± 5	30 - 70	1.0 - 5.0	> 99

Potential applications: grinding and polishing agents, 3D printing

## IBUpart® Y-ZrO<sub>2</sub>

YTTRIUM-STABILIZED ZIRCONIUM(IV)-OXIDE

Specific surface area (BET) m <sup>2</sup> /g	Primary particle size (TEM) nm	Agglomerate size (d50) µm	Purity (%)
70 ± 5	15 - 20	0.3 - 0.5	> 99

Potential applications: ceramics, bioceramic implants

## CUSTOMIZED PRODUCTS

Standard specifications and materials are given in the tables above.

- If desired, we can optimize these to be customer-specific and adapt the parameters to your requirements.
- Further oxides and dopings can be produced upon request.
- Suspensions with different specifications can also be created.

Please contact us for more information!

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