

## PORESPHERE® Indikator-OF

Silica gel type A narrow-pored with color indicator orange/colorless

### Section 1: Information about the supplier/distributor

**GIEBEL Desiccants GmbH**  
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74626 Bretzfeld-Schwabbach  
Germany  
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### Section 2: Name of substance

|                        |                                 |                                                   |
|------------------------|---------------------------------|---------------------------------------------------|
| Chemical Product Name: | Silicon dioxide                 |                                                   |
| Composition:           | ≥99% Silicon Dioxide            | SiO <sub>2</sub>                                  |
|                        | <1% Ammonium Iron(III) Sulphate | NH <sub>4</sub> Fe(SO <sub>4</sub> ) <sub>2</sub> |
|                        | ≤1% water                       | H <sub>2</sub> O                                  |
| Colour change:         | Orange → Colourless             |                                                   |
| CAS No.:               | 7631-86-9                       |                                                   |
| EC No.:                | 231-545-4                       |                                                   |
| REACH Registration     |                                 |                                                   |
| number:                | 01-2119379499-16-0401           |                                                   |

### Section 3: Typical Application

- a) Moisture absorption
- b) Rust protection of instruments, measuring instruments and devices when closed
- c) Visual indication of the relative humidity of the given environments
- d) Adsorbers for Transformers

## Section 4: Specifications

|                            |                           |
|----------------------------|---------------------------|
| Pore Size:                 | ~2.0 - 3.0 nm             |
| Appearance and shape:      | Orange, solid balls       |
| Particle size:             | 3.0-5.0 mm                |
| Bulk density:              | 0.78 g/ml                 |
| Pore volume:               | 0.35-0.45 ml/g            |
| Crushing strength:         | ≥200 N                    |
| Specific surface:          | 600-800 m <sup>2</sup> /g |
| Abrasion rate:             | ≤2%                       |
| Water Adsorption Capacity: |                           |
| at 25°C and 100%RH         | >370 ml/kg                |
| Adsorption RH=20%, ≥       | 8,23 %                    |
| at 25°C RH=35%, ≥          | 14,15 %                   |
| RH=50%, ≥                  | 21,26 %                   |
| Regeneration temperature:  | 120 °C                    |
| Maximum storage time:      | Two years                 |

## Section 5: Regeneration:

PORESPHERE™ A-Indikator OF can be regenerated by heating. To remove moisture, a temperature of 120°C is required. A correctly regenerated silica gel can reliably adsorb moisture. The dehumidification performance is highly dependent on temperature, humidity and gas composition in the process.