

AEROXIDE® TiO₂ P 25

Hydrophilic fumed titanium dioxide

Characteristic physico-chemical data

| Properties and test methods | Unit | Value |
|---|-------------------|-------------|
| Specific surface area (BET) | m ² /g | 50 ± 15 |
| Tamped density* acc. to DIN EN ISO 787/11, Aug. 1983 | g/l | approx. 130 |
| Moisture* 2 hours at 105 °C | wt. % | ≤ 1.5 |
| Ignition loss 2 hours at 1000 °C, based on material dried for 2 hours at 105 °C | wt. % | ≤ 2.0 |
| pH in 4% dispersion | | 3.5 - 4.5 |
| Titanium dioxide based on ignited material | wt. % | ≥ 99.50 |
| Al ₂ O ₃ - content based on ignited material | wt. % | ≤ 0.300 |
| SiO ₂ - content based on ignited material | wt. % | ≤ 0.200 |
| Fe ₂ O ₃ - content based on ignited material | wt. % | ≤ 0.010 |
| HCl - content based on ignited material | wt. % | ≤ 0.300 |
| Sieve residue (by Mocker, 45µm) acc. to DIN EN ISO 787/18, Apr. 1984 | wt. % | ≤ 0.050 |
| * ex plant The data represents typical values (no product specification) | | |

Registration

AEROXIDE® TiO₂ P 25

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|--|------------|
| CAS-No. | 13463-67-7 |
| REACH (Europe) | registered |
| TSCA (USA), DSL (Canada) | registered |
| AICS (Australia) | registered |
| ENCS (Japan), IECS (China), KECI (Korea) | registered |

AEROXIDE® TiO₂ P 25 is a highly dispersed titanium dioxide manufactured according to the AEROSIL® - process.

Applications and properties

Applications

- Catalyst carrier
- Active component for photocatalytic reactions
- Heat stabilizer for silicone rubber

Properties

- Process related high purity
- Heat stabilizing properties for silicone-elastomers through its effect on redox reactions. Thereby:
 - Improvement of ageing properties at high temperature (≈200 °C)
 - Positive impact on flammability protection

Safety and handling

Information concerning the safety of this product is listed in the corresponding Material Safety Data Sheet, which will be sent with the first delivery or upon updating. Such information is also available from Evonik Industries AG, Product Safety Department, E-MAIL sds-im@evonik.com or can be downloaded from our homepage www.aerosil.com. We recommend to read carefully the material safety data sheet prior to the use of our product.

Packaging and storage

AEROXIDE® TiO₂ P 25 is supplied in multiple layer 10 kg bags. We recommend to store the product in closed containers under dry conditions and to protect the material from volatile substances. AEROXIDE® TiO₂ P 25 should be used within 2 years after production.

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