

# AEROXIDE® TiO<sub>2</sub> T 805

## Hydrophobic fumed titanium dioxide

### Characteristic physico-chemical data

Properties and test methods	Unit	Value
Specific surface area (BET)	m <sup>2</sup> /g	35 - 55
pH value in 4% dispersion		3.0 - 4.0
Loss on drying* 2 hours at 105°C	%	≤ 1.0
C content	%	2.7 - 3.7
Tamped density* ISO 787-11, modified	g/l	approx. 200
SiO <sub>2</sub> content based on ignited substance	%	≤ 2.500
Fe <sub>2</sub> O <sub>3</sub> content based on ignited substance	%	≤ 0.010
TiO <sub>2</sub> content based on ignited substance	%	≥ 97.0
* ex plant The data represents typical values (no product specification)		

### Registration

#### AEROXIDE® TiO<sub>2</sub> T 805

CAS-No.	100209-12-9
EINECS (Europe)	exempted
TSCA (USA)	For TSCA-purposes a mixture of silane and titanium dioxide (40 CFR 720.30 (h) (7))
DSL (Canada)	registered
AICS (Australia)	registered
ENCS (Japan)	registered
IECS (China)	registered
KECI (Korea)	registered
PICCS (Philippines)	registered

AEROXIDE® TiO<sub>2</sub> T 805 is a highly dispersed, fumed titanium dioxide that has been treated with octylsilane to achieve a hydrophobic surface.

This product is not intended for use as a UV-filter in cosmetic sunscreen formulations. Microfine titanium dioxide for use as a UV-filter in cosmetic sunscreens is available from Evonik Consumer Specialties under the tradename TEGO® Sun T 805. For further information on this product and guide formulations, please visit the website: <http://personal-care.evonik.com>

### Applications and properties

#### Applications

- Additive for toner
- Heat stabilizer for silicone rubber

#### Properties

- High level of UV-absorption
- SPF booster in combination with chemical UV-Filters.
- High level of photostability
- Easy to disperse in emollients
- Boosts water-resistance of cosmetic formulations
- Improves the free-flow properties and stabilizes the electrostatic charge of powdered copier and laser printer toner.

### 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](mailto:sds-im@evonik.com) or can be downloaded from our homepage [www.aerosil.com](http://www.aerosil.com). We recommend to read carefully the material safety data sheet prior to the use of our product.

### Packaging and storage

AEROXIDE® TiO<sub>2</sub> T 805 is supplied in multiple layer 20 kg bags. We recommend to store the product in closed containers under dry conditions and to protect the material from volatile substances. AEROXIDE® TiO<sub>2</sub> T 805 should be used within 2 years after production.

This information and all technical and other advice are based on Evonik's present knowledge and experience. However, Evonik assumes no liability for such information or advice, including the extent to which such information or advice may relate to third party intellectual property rights. Evonik reserves the right to make any changes to information or advice at any time, without prior or subsequent notice. EVONIK DISCLAIMS ALL REPRESENTATIONS AND WARRANTIES, WHETHER EXPRESS OR IMPLIED, AND SHALL HAVE NO LIABILITY FOR, MERCHANTABILITY OF THE PRODUCT OR ITS FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE), OR OTHERWISE. EVONIK SHALL NOT BE RESPONSIBLE FOR CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES (INCLUDING LOSS OF PROFITS) OF ANY KIND. It is the customer's sole responsibility to arrange for inspection and testing of all products by qualified experts. Reference to trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used.

## Customer Service

### Europe/ Middle-East/ Africa/ Latin America

**Evonik Industries AG**  
Inorganic Materials  
PB 010-A410  
Rodenbacher Chaussee 4  
63457 Hanau-Wolfgang  
Germany  
PHONE +49 6181 59 12532  
FAX +49 6181 59 712532  
aerosil@evonik.com  
www.aerosil.com

### North America Evonik Corporation

Inorganic Materials  
299 Jefferson Road  
Parsippany, NJ 07054-0677  
USA  
PHONE +1 800-233-8052  
FAX +1 973-929-8502  
aerosil@evonik.com  
www.aerosil.com

### Asia (excluding Japan) Evonik (SEA) Pte. Ltd.

Inorganic Materials  
3 International Business Park  
Nordic European Centre, #07-18  
Singapore 609927  
PHONE +65 6809-6877  
FAX +65 6809-6677  
aerosil@evonik.com  
www.aerosil.com

### Japan NIPPON AEROSIL CO., LTD.

Marketing & Sales Division  
P.O. Box 7015  
Shinjuku Monolith 13F  
3-1, Nishi-Shinjuku 2-chrome  
Shinjuku-ku, Tokyo  
163-0913 Japan  
PHONE +81 3 3342-1789  
FAX +81 3 3342-1761  
infonac@evonik.com  
www.aerosil.jp

## Technical Service

### Europe/ Middle-East/ Africa/ Latin America

**Evonik Industries AG**  
Inorganic Materials  
HPC 911-221 A  
Rodenbacher Chaussee 4  
63403 Hanau-Wolfgang  
Germany  
PHONE +49 6181 59-3936  
FAX +49 6181 59 4489  
technical.service.aerosil@  
evonik.com  
www.aerosil.com

### North America Evonik Corporation

Inorganic Materials  
2 Turner Place  
Piscataway, NJ 08855-0365  
USA  
PHONE +1 888 SILICAS  
PHONE +1 732 981-5000  
FAX +1 732 981-5275  
technical.service.aerosil@  
evonik.com  
www.aerosil.com

### Asia (excluding Japan) Evonik Specialty Chemicals (Shanghai) Co.,Ltd

Inorganic Materials  
55 Chundong Road  
Xinzhuang Industry Park  
Shanghai 201108  
P.R. China  
PHONE +86 21 6119-1065  
FAX +86 21 6119-1075  
technical.service.aerosil@  
evonik.com  
www.aerosil.com

### Japan NIPPON AEROSIL CO., LTD.

Applied Technology Group  
3 Mita-Cho  
Yokkaichi, Mie  
510-0841 Japan  
PHONE +81 59 345-5270  
FAX +81 59 346-4657  
infonac@evonik.com  
www.aerosil.jp