

AEROXIDE® TiO₂ T 805

Hydrophobic fumed titanium dioxide

Characteristic physico-chemical data

Properties and test methods	Unit	Value
Specific surface area (BET)	m ² /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* modified	g/l	approx. 200
SiO ₂ content based on ignited substance	%	≤ 2.500
Fe ₂ O ₃ content based on ignited substance	%	≤ 0.010
TiO ₂ content based on ignited substance	%	≥ 97.0
* ex plant The data represents typical values (no product specification)		

Registration (substance or components of substance)

AEROXIDE® TiO₂ 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® TiO₂ 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: evonik.com/personal-care

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 Safety Data Sheet, which will be sent with the first delivery or upon updating. Such information is also available from Evonik Resource Efficiency GmbH, Product Safety Department, E-MAIL sds-hu@evonik.com or can be downloaded from our homepage www.aerosil.com. We recommend to read carefully the safety data sheet prior to the use of our product.

Packaging and storage

AEROXIDE® TiO₂ 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® TiO₂ T 805 should be used within 2 years after production.

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