

AEROXIDE® TiO₂ PF 2

Hydrophilic fumed titanium dioxide

Characteristic physico-chemical data

Properties and test methods	Unit	Value
Specific surface area (BET)	m ² /g	45 - 70
pH value in 4% Dispersion		3.5 - 4.5
Loss in ignition 2 hours at 1000°C based on material dried for 2 hours at 105°C	%	≤ 3.0
Tamped density*	g/l	approx. 80
Moisture* 2 hours at 105°C		≤ 2.0
HCl content based on ignited material	%	≤ 0.8
* ex plant The data represents typical values (no product specification)		

Registrations (substance or product components)

AEROXIDE® TiO₂ PF 2

CAS-No.	13463-67-7 1309-37-1
EINECS (Europe)	registered
TSCA (USA)	registered
DSL (Canada)	registered
AICS (Australia)	registered
ENCS (Japan)	registered
IECS (China)	registered
KECI (Korea)	registered

AEROXIDE® TiO₂ PF 2 is a highly dispersed titanium dioxide manufactured according to the AEROSIL® process. The product is based on a mixture of titania and iron oxide.

Applications and properties

Applications

- In silicone rubber systems
 - RTV-1K
 - RTV-2K
 - LSR
 - HCR

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 (≥ 275°C)
 - Positive impact on flammability protection

AEROXIDE® TiO₂ PF 2 is based on AEROXIDE® TiO₂ P 25, but was further developed to optimize its properties as a heat stabilizer for silicone systems.

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 PF 2 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 PF 2 should be used within 2 years after production.

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