

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
IECSC (China)	registered
KECI (Korea)	registered

AEROXIDE® TiO₂ PF 2 is a unique fine particle mixed oxide consisting of titania and iron oxide, manufactured analogous to the AEROSIL® process. AEROXIDE® TiO₂ PF 2 is an excellent heat stability in silicone rubber systems and certified according to BfR XV.

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 Operations, Product Safety Department, E-MAIL sds-im@evonik.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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