

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 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

A safety data sheet will be provided with your first delivery and with subsequent revisions. Additionally, the Product Safety Department of Evonik Resource Efficiency GmbH can be contacted via mail at sds-hu@evonik.com for specific questions. We recommend to read the safety data sheet carefully prior to use of the 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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Customer Service

Europe/ Middle-East/ Africa/ Latin America

Evonik Resource Efficiency GmbH

Business Line Silica
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

Business Line Silica
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.

Business Line Silica
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 Resource Efficiency GmbH

Business Line Silica
HPC 911-221 A
Rodenbacher Chaussee 4
63457 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

Business Line Silica
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

Business Line Silica
55 Chundong Road
Xinzhuang Industry Park
Shanghai 201108
P.R. China
PHONE +86 21 6119-1151
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