

AEROXIDE® TiO₂ P 90

Hydrophilic fumed titanium dioxide

Characteristic physico-chemical data

Properties and test methods	Unit	Value
Specific surface area (BET)	m ² /g	70 - 110
pH value in 4% dispersion		3.2 - 4.5
Tamped density*	g/l	approx. 120
Loss on drying* 2 hours at 105 °C	%	≤ 4.0
TiO ₂ content**	%	≥ 99.5
Al ₂ O ₃ content**	%	≤ 0.3
SiO ₂ content**	%	≤ 0.2
Fe ₂ O ₃ content**	%	≤ 0.01
HCl content	%	≤ 0.3
Sieve residue (by Mocker, 45µm)	%	≤ 0.05
* ex plant		
** based on material ignited at 1000 °C		
The data represents typical values (no product specification)		

Registrations (substance or product components)

AEROXIDE® TiO₂ P 90

CAS-No.	13463-67-7
REACH (Europe)	registered
TSCA (USA)	registered
DSL (Canada)	registered
AICS (Australia)	registered
ENCS (Japan)	registered
IECSC (China)	registered
KECI (Korea)	registered

AEROXIDE® TiO₂ P 90 is a highly dispersed titanium dioxide manufactured according to the AEROSIL® process.

Applications and properties

Applications

- Catalyst and catalyst support
- Photocatalyst
- Heat stabilizer for silicone rubber
- Dry coating of cathode materials in Li-ion batteries to increase performance and life-time

Properties

- Increased specific surface area compared to AEROXIDE® TiO₂ P 25
- High (photo-) catalytic activity upon UV-irradiation
- Good transparency in thin layers
- Improves the ageing stability of silicone rubber at temperatures above 200 °C
- Reduces the flammability of silicone elastomers

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 P 90 is supplied in multiple layer 8 kg bags. We recommend to store the product in closed containers under dry conditions and to protect the material from volatile substances. AEROXIDE® TiO₂ P 90 should be used within 2 years after production.

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