

AERODISP® W 450 ZX

Anionic dispersion of fumed aluminium oxide (Al₂O₃)

Characteristic physico-chemical data

Properties and test methods	Unit	Value
Al ₂ O ₃ content	%	49 - 51
Viscosity measured at a shear rate of 100 s ⁻¹	mPas	≤ 100
pH value		6.0 - 9.0
Density 20 °C	g/cm ³	1.53
Particle size (d50) Static light scattering	nm	80
The data represent typical values (no product specification).		

Registrations (substance or product components)

AERODISP® W 450 ZX

CAS-No.*	1344-28-1
EINECS (Europe)	registered
TSCA (USA) DSL (Canada)	registered
ENCS (Japan) IECSC (China) KECI (Korea) CSNN (Taiwan) PICCS (Philippines)	registered
AICS (Australia) NZIoC (New Zealand)	registered

AERODISP® W 450 ZX is an aluminium oxide dispersion with a high solid content, special anionic stabilization and a neutral pH. The water-based dispersion appears milky-white.

Applications and properties

Applications

- Ceramic applications
- Polymer nanocomposites
- Applications that require anionic surface charge and/or neutral to basic pH

Properties

- Negative surface charge as a result of special stabilization based on citric acid
- High solid content (approx. 50%)
- Superior rheological behavior
- Easy to handle
- Inorganic binder with high temperature stability
- Excellent sintering activity due to high surface area

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

Depending on the region, AERODISP® W 450 ZX is available in 60 kg containers, 250 kg drums and 1250 kg intermediate bulk containers (IBC's). All dispersions must be protected from extreme heat and frost. The product should be used within 18 months from the date of production. Small amounts of sedimentation are normal.

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Customer Service

Europe/ Middle-East/ Africa/ Latin America

Evonik Operations 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.silica-specialist.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.silica-specialist.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.silica-specialist.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 Operations

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.silica-specialist.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.silica-specialist.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.silica-specialist.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