

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

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 reach the safety data sheet carefully prior to use of the 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 12 months from the date of production. Small amounts of sedimentation are normal.

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