

AERODISP® W 640 ZX

Anionic dispersion of fumed aluminium oxide (Al₂O₃)

Characteristic physico-chemical data

Properties and test methods	Unit	Value
Al ₂ O ₃ content	%	39 - 41
Viscosity measured at a shear rate of 100s ⁻¹	mPa s	≤ 70
pH value		6.0 - 9.0
Density 20 °C	g/cm ³	1.39
Particle size (d50) Static light scattering	nm	80
The data represents typical values (no product specification)		

Registrations (substance or product components)

AERODISP® W 640 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
*CAS-No. refers to the main inorganic substance used	

AERODISP® W 640 ZX is a highly concentrated aqueous aluminum oxide dispersion with special anionic stabilization and neutral pH value. The dispersion appears milky white.

Applications and properties

Properties

- Anionic (negative) surface charging due to special acidic pH stabilization
- Very high solid content (40 %)
- Outstanding rheological properties
- Easy handling
- Can be added simply to water-based formulations

Applications

- Polymer nanocomposite
- Scratch-resistant melamine resin coatings
- In ceramic materials as a bonding agent and for control of sintering activity

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

Depending on the region, AERODISP® W 640 ZX is available in 60 kg containers, 250 kg drums and 1.250 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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