

AERODISP® W 440

Aqueous dispersion of a hydrophilic fumed aluminum oxide

Characteristic physico-chemical data

Properties and test methods	Unit	Value
pH value		3.0 - 5.0
Density 20 °C	g/cm ³	1.38
Al ₂ O ₃ content	%	39 - 41
Mean aggregate size d-50 value	µm	0.12
Viscosity 100 s ⁻¹ , 23 °C	mPa s	≤ 1000
The data represents typical values (no product specification)		

Registrations (substance or product components)

AERODISP® W 440

CAS-No.*	1344-28-1
EINECS (Europe), TSCA (USA), DSL (Canada), AICS (Australia), ENCS (Japan), IECSC (China), KECI (Korea)	All components of this dispersion are registered in the mentioned inventories.

AERODISP® W 440 is a waterborne dispersion with a high solids content and a slightly acidic pH.

Applications and properties

Applications

- Inkjet coatings for Film and Paper
- Enables the development of formulations at high solids content
- Creates transparent, high gloss, microporous coatings
- Shortens ink drying times ("Instant Dry")
- Optimizes print resolution for photo quality applications
- Provides excellent colorant fixation (dyes and pigment based inks)
- Enhance rub and smudge resistance
- Improves water-resistance

Properties

- Positively charged solid particles
- High solids content (approx. 40%)
- Nano-sized primary particles
- Superior rheological behavior
- Easy to handle

Appearance

- AERODISP® W 440 is a milky-white liquid

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 440 is available in 60 kg cans, 220 kg drums and 1000 and 1200 kg intermediate bulk containers (IBC's). All dispersions must be protected from extreme heat and frost. The product should be used within twelve months from the date of production. Small amounts of sedimentation are normal.

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