

AERODISP® W 630

Aqueous dispersion of hydrophilic fumed aluminium oxide

Characteristic physico-chemical data

Properties and test methods	Unit	Value
pH value		3.0 - 5.0
Density 20 °C	g/cm ³	1.26
Al ₂ O ₃ content	%	29 - 31
Mean aggregate size d-50 value	µm	0.14
Viscosity	mPas	≤ 2000
* ex plant The data represents typical values (no product specification)		

Registrations (substance or product components)

AERODISP® W 630

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 630 has a high solid content and slightly acidic pH value. The cationic nature of the alumina in this dispersion makes it ideal to fix dyes. Combined with fast ink absorption, it is well suited for high quality inkjet coatings.

Applications and properties

Applications

- Inkjet coatings for Film and Paper
- Enables the development of formulations with a 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)
- Enhances rub and smudge resistance
- Improves water-resistance

Properties

- Positively charged solid particles
- High solid content (approx. 30 %)
- Nano-sized primary particles
- Superior rheological behavior

Appearance

- AERODISP® W 630 is a milky-white liquid

Packaging and storage

Depending on the region, AERODISP® W 630 is available in 60 kg containers, 220 kg drums, 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.

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.

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