

VP Disp. W 640 XC2

Developmental anionic dispersion of fumed aluminium oxide*

Characteristic physico-chemical data

Properties and test methods	Unit	Value
Al ₂ O ₃ - content measured as residue on ignition	wt. %	37 ± 1.0
pH DIN EN ISO 787/9		7.0 - 10.0
Viscosity measured according to DIN EN ISO 3219 at a shear rate of 100 s ⁻¹	mPas	≤ 2000
Mean aggregate size d-50 value	µm	0.08
Sodium content measured as Na by ICP	wt. %	< 0.1
Density 20 °C	g/cm ³	1.35

The data represent typical values (no product specification).

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.

Registrations (substance or product components)

VP Disp. W 640 XC2

CAS-No.*	1344-28-1
EINECS (Europe), TSCA (USA)	All components of this dispersion are listed in the mentioned inventories.

*Data refer to the inorganic substance used

VP Disp. W 640 XC2 is an alumina dispersion with a high solid content, special anionic stabilization and a neutral to basic pH.

Applications and properties

Applications

- Ready-to-use binder for investment casting. Especially suitable for single crystal casting and directional solidification with superalloys. Slurries prepared with alumina and zirconia powders show excellent stability over several months
- Ceramic applications
- Applications that require anionic surface charge and/or neutral to basic pH

Properties

- Contains wetting agent to improve wettability of wax
- Contains polymer to increase shell green strength
- Anionic (negative) surface charge as a result of special stabilization
- High solid content
- Superior rheological behavior
- Easy to handle

Appearance

- VP Disp. W 640 XC2 is a milky-white, water-based liquid.

* Developmental products are labeled with the VP designation. Commercialization depends on market response.

Packaging and storage

Depending on the region, VP Disp. W 640 XC2 is available in 60 kg containers, 250 kg drums and 1.250 kg intermediate bulk containers (IBC's). Storage temperature: 5 to 35 °C. The product should be used within six months from the date of production. Small amounts of sedimentation are normal.

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