

BYK-ET 3030

Aqueous wetting and dispersing additive for aqueous ceramic separator coating slurries for Li-ion cells.

Product Data

Composition

Solution of a polyacrylate

Typical Properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Density (20 °C):	1.16 g/ml
Solvents:	Water
Non-volatile matter (10 min., 150 °C):	42 %
Electrochemical stability:	0.1 V to 4.8 V (vs. Li/Li ⁺)

Storage and Transportation

The product may solidify below 5 °C. Heat to 20 °C and stir.

Applications

Energy Storage

Special Features and Benefits

The stabilizing effect of BYK-ET 3030 shortens the dispersion process of alumina/boehmite in aqueous ceramic separator coating slurries and can be used to formulate separator coating slurries with a higher solid content. The higher solid content accelerates the drying process and improves the productivity of the separator manufacturing.

Recommended Levels

Amount of additive (as supplied) based upon:

Alumina/boehmite: 0.5-1.5 %

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

For optimum performance, BYK-ET 3030 must be incorporated into the mill base before the addition of particles. The suitable dispersion time is determined by measuring the particle size over the dispersion time.



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This issue replaces all previous versions.