KOBOND™ 3510 Hyperdispersant

INTRODUCTION

KOBOND® 3510 is a modified polyamide polymer dispersant with multiple pigment-affinitive anchoring groups. It is specifically developed for the efficient dispersion of conductive carbon black and inorganic pigments in electrode formulations, particularly lithium iron phosphate (LFP) cathode slurries.

KOBOND™ 3510 is particularly effective in co-grinding systems, offering outstanding anti-flocculation and anti-floating performance.

BENEFITS / EFFECTS

- Superior wetting and dispersing performance for conductive carbon and pigments
- Prevents flocculation, flooding, floating, and color instability
- Reduces grinding time and improves processing efficiency
- Enhances color strength, gloss, and long-term dispersion stability
- Excellent compatibility with co-grinding systems
- Optimized for lithium-ion battery applications, especially $LiFePO_4$ (LFP) electrode slurries

PHYSICAL PROPERTIES

Appearance	Yellow transparent liquid
Active Content (%)	50
Density 25°C	1.03
Solvent	N, N-dimethylacetamide

These values are typical and not intended for specification purposes.

APPLICATIONS

KOBOND® 3510 is suitable for:

- Lithium-ion battery electrode production
- Conductive carbon dispersion
- LFP cathode slurry stabilization
- Water-borne and solvent-borne pigment dispersion systems

RECOMMENDED DOSAGE

Titanium dioxide (TiO_2)	2-4%
Inorganic pigments	3-5%
Organic pigments	20-40%
Carbon black	30-100%

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Actual dosage should be optimized through lab testing based on specific formulation and system requirements.

USAGE GUIDELINES

KOBOND® 3510 should be pre-mixed with the solvent or binder phase before adding pigments or fillers. For optimum dispersion, use high-shear equipment and monitor particle size and slurry rheology throughout processing. In battery slurry preparation, dispersion stability and volume resistivity should be validated over time.

PACKING

KOBOND™ 3510 is supplied in 25Kg drum.

HANDLING

This document does not contain the product safety information required for safe use. Before handling, please refer to the product and safety data sheets, as well as container labels, for information on safe usage, physical hazards, and health risks. Safety Data Sheet is available on the website, from the distributor, or by contacting SiSiB customer service.

STORAGE

When stored at temperatures between 10°C and 50°C in the original unopened containers, KOBOND™ 3510 has a shelf life of 24 months from the date of production.

NOTE

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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