

Brilliant Optical Brighteners

BOB SERIES

Brilliant offers a comprehensive range of Optical Brighteners. These fluorescent whitening agents can be used in a wide range of applications to offer brilliant white effects. By absorbing the higher energy wavelengths present in ambient light and re-emitting them in the blue region, optical brighteners are able to create whiter whites, and give a clean visual 'pop' to all colors.

Benefits

- Increases visual brightness and whiteness of whites and colors
- Highly stable in various solutions
- Good lightfastness
- Outstanding Heat Resistance
- Excellent Compatibility

Application

- Used as brightening agent for powdered and liquid detergents (BOB-905)
- Yields intense white effects on paper and other cellulosic fibers (BOB-905, BOB-907)
- Used as fluorescing agent for paints and security inks (BOB-905, BOB-907)
- Useful as a tracer to ensure uniform coverage (BOB-905, BOB-907)
- Used in cotton, paint and added into resin to whiten cellulose fibers (BOB-903)
- Used in plastics as to counter yellowing (BOB-907)

BOB Series in Coatings

Optical brighteners are intended to be soluble in coatings and inks – see solubility notes below to identify the correct grade for the intended formulation. BOB-905 Brighteners can be used in water-based systems. BOB-903 and BOB-907 Brighteners can be used in solvent-based systems.

Since optical brighteners yield a completely clear coating in ambient light, with vivid blue fluorescence under UV, users can use the effect to verify coverage of a coating, to create markers invisible to the naked eye, or as an invisible marker or tracer.

Additionally, Brilliant BOB series can be used to mask any yellowness of clearcoats in many coating systems that are prone to yellowing.



BOB Series in Plastics

BOB-907 offers many of the same benefits in plastics systems as coatings. Formulators are able to increase brilliance of their whites as well as increase black light response. Clear plastic applications also benefit from the addition of BOB pigments to help counter yellowing of the product.

Product Description

BOB-903

- Appearance: White crystalline powder
- Solubility: Soluble in ethanol, insoluble in water

BOB-905

- Appearance: Light yellow powder
- Solubility: Highly soluble in water

BOB-907

- Appearance: Light yellow powder
- Solubility: Not soluble in water, soluble in alcohol and aliphatic solvents

Stability

Stable against bleaching agents such as hypo-chlorite and peroxide and also to alkali, acids and perspiration. Stability towards bleaching agents and alkali is an important factor in the wash liquor as well as in the detergent formulation.

Storage

When stored in a cool, dry environment, BOB products have an indefinite shelf life. Containers should be kept closed to minimize contamination.

Important

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