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Calsan® 65

Chemical Nature	A liquid calcium stearate dispersion.		
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	Properties		
Typical Properties	Solids content	%	64.0 – 66.0
	pH		9.5 – 12.0
	Viscosity	cps	50 – 200
	(Brookfield RVT, Spindle #3, at 100 rpm)		
	Retained on 325 mesh	%	≤0.003
	Free Alkali	%	0.1 (max)
Compatibility with	Starch, protein or latex-type binder systems such as styrene-butadiene, acrylics or polyvinyl acetates		

Applications	
Features	Its compatibility with starch, protein or latex-type binder systems (such as styrene-butadiene, acrylics or polyvinyl acetates) gives Calsan 65 lubricant utility in all types of paper coatings. The addition of Calsan 65 lubricant to coating formulations will lubricate the coating in the wet state, and provide improved flow and leveling characteristics.
	The addition of Calsan 65 lubricant will also permit increased steam usage during supercalendering operations to achieve desired gloss levels while holding dusting to a minimum. Finished coatings which have incorporated Calsan 65 lubricant will exhibit a smoother, satin-like feel after supercalendering and will be less likely to exhibit cracking after folding.
	Calsan 65 lubricant is produced with a high level of uniformity and quality at BASF's facilities in Appleton, Wisconsin using unique state-of-the-art equipment.
Advantages	<p>Some of the characteristics which provide value to the user include:</p> <ul style="list-style-type: none">• Low Residue: All raw materials are filtered prior to the reaction phase of manufacture. Following the reaction, the product is filtered several times and passed through magnetic separation. A final separation, using state-of-the-art equipment, is done prior to loading. This insures that the very small level of 325 mesh residue, usually below 0.003%.• Low Viscosity: Low viscosity provides excellent pumpability which is ideal for computer controlled automatic feeding systems.• Consistency: A better uniformity of particle size provides a product of superior consistency.• Low Entrained Air: The greater density and uniformity of Calsan 65 lubricant promotes ease of application and enables precision feeding.• Foam Control: The emulsifier package specifically developed for Calsan 65 lubricant keeps foam at a minimum and helps to eliminate the detrimental effects of foam during coating application.• High Whiteness: Careful selection of raw materials and adherence to quality specifications helps to achieve a high whiteness.• Low Free Calcium Ion Content: Careful control and balance of raw materials used in the manufacture of Calsan 65 lubricant provides a product with low free calcium ion content.• Low Sedimentation: The consistency and uniformity of Calsan 65 lubricant reduces the tendency to settle in prolonged static storage. (Even so, a storage tank with agitation is recommended).

- **Rapid Dispersion in the Coating Formulation:** The rapid dispersion properties are achieved through the unique emulsifier package.

Processing

Calsan 65 lubricant may be added at any convenient point during coating make-down, but it is generally added near the beginning of the coating make-down, usually at a level of 0.5 to 2.0% (solids on dry pigment solids).

When added to coatings containing starch, some viscosity increase may be observed. Little or no viscosity increase will be seen with all synthetic coatings.

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care and wearing of protective goggles.

Material Safety Data Sheet

All safety information is provided in the Material Safety Data Sheet for Calsan 65.

Important

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