

# Cer<sup>in</sup>® PB

LIQUID PEARLIZING AGENT

Sulfate-free

No heating required

Compatible wide range  
of surfactants

**CHEMREZ**  
TECHNOLOGIES



# CERIN PB10

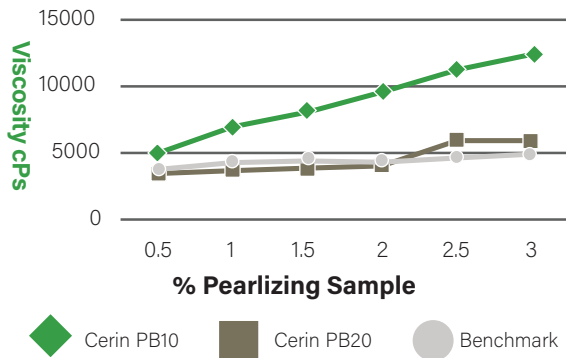
Sulfate, PEG, and EO-free

# CERIN PB20

Sulfate and PEG free  
Provides more opaque and  
pearlizing effect

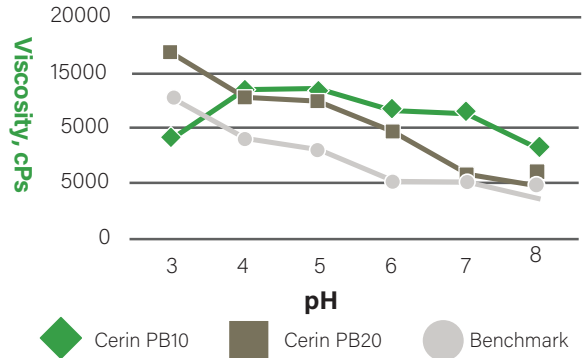
- Offers smooth luster and shimmering effect on personal care and cosmetic products
- Cold-processable and easy to disperse
- Enhances product viscosity
- Can be used in wide range of pH
- Naturally-derived from sustainable vegetable oil
- Environmentally friendly

## VISCOSITY PROFILE IN SLES SURFACTANT SYSTEM (15% SLES / 5% BETAINE / 5% CMEA)



The viscosity of the system increases as the amount of Cerin PB10, Cerin PB20 and Benchmark increases. Cerin PB10 has the highest viscosity among the three samples.

## VISCOSITY PROFILE AT DIFFERENT PH (15% SLES / 5% BETAINE / 5% CMEA)



The viscosity of the surfactant system decreases as the pH of the sample becomes more basic

MATERIALS	INC NAME	PERCENTAGE
Water	Aqua	q.s
SLES 70%	Sodium Lauryl Ether Sulfate	15.00
Hi-Foam750	Cocamide MEA	5.00
Fil-Soft 30	Cocamidopropyl Betaine	5.00
Cerin RG	Glycerin	5.00
D-Panthenol		5.00
Fragrance		0.50
Preservative		0.10
Cerin PB20	Glycol Disterate (and) CMEA	1.00
NaCl	Sodium Chloride	1.20
10% Citric Acid	Citric Acid	q.s

PHYSICAL APPEARANCE:	
Appearance	Pearlized viscous liquid
pH (as is)	6.98
Viscosity, cPs	6,800 min

### PROCEDURE:

Mix all the raw materials in the given order.



## DEGREE OF WHITENESS