

# TECHNICAL DATA SHEET

## BERCHEM® 4136\*

Coating Lubricant

BERCHEM® 4136 is a 100% active coating lubricant designed to be used with all types of paper coating formulations and equipment. BERCHEM® 4136 was designed to reduce and eliminate such problems as streaking, whiskering and blade weeping, as well as improving the printing surface to increase both sheet and print gloss. BERCHEM® 4136 has good dissolution characteristics when added to a pigmented coating under agitation.

### TYPICAL PROPERTIES

Type:	Diglyceride
Appearance:	Reddish brown clear liquid
Solids:	100% Active
Viscosity, Brookfield:	400 – 1,200 cPs
Specific Gravity:	0.98 – 1.00

### ADVANTAGES

Eliminates whiskering, blade weeping, and minimizes blade scratching

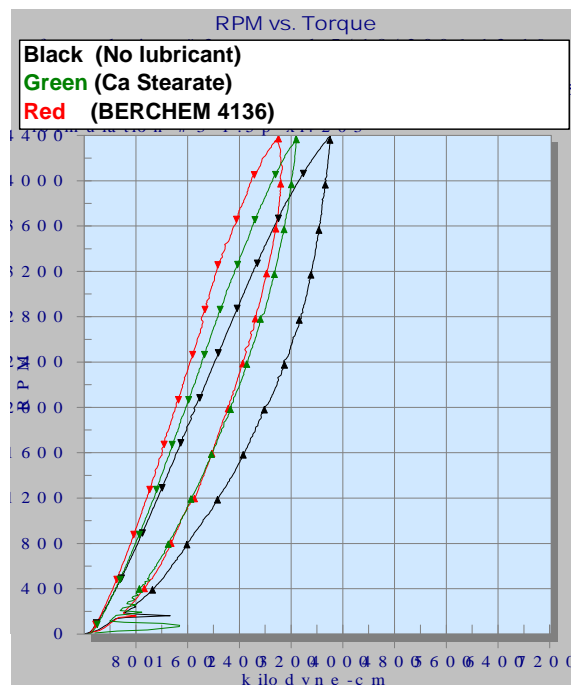
Improves coating leveling after application at the coater head

Provides excellent rheological coating characteristics – see high shear rheogram

Allows higher solids coating

Improves ink holdout/print gloss

Increases water retention to help lower binder migration and print mottle



\*U.S. Patent Number 7,732,388

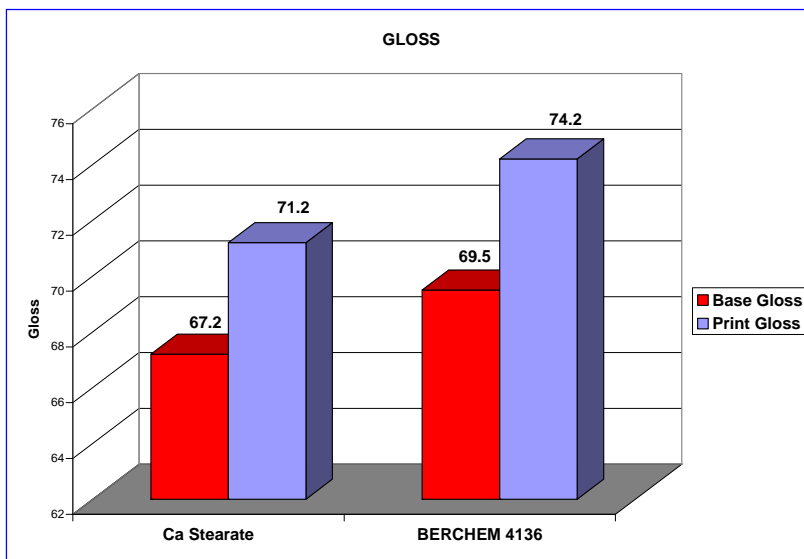
**Bercen Inc.**  
Where Innovative Solutions Begin

30140 Eden Church Road  
Denham Springs, LA 70726  
1-800-4-BERCEN  
[www.bercen.com](http://www.bercen.com)

# TECHNICAL DATA SHEET

## APPLICATION

The use of BERCHEM® 4136 as a coating lubricant has proven superior to calcium stearate in gloss characteristics. The most notable performance characteristics associated with BERCHEM® 4136 are increased water retention, lower high shear viscosity, and increased paper and print gloss. It is recommended throughout initial trials that BERCHEM® 4136 be used at a level of 0.50 to 1.0 parts based on pigment solids. BERCHEM® 4136 should be added to coating mixture as received without pre-dilution.



## STORAGE STABILITY

BERCHEM® 4136 should be stored between 45°F - 90°F and has a shelf life of six months. **Do not clean/flush lines with water: high viscosity gel will form that is difficult to clean. Heavy duty surfactant/water mix or caustic should be used for clean-up.**

## SHIPMENT

BERCHEM® 4136 is shipped f.o.b. manufacturing plant.

## FDA STATEMENT

Paper and paperboard treated with BERCHEM® 4136 is FDA compliant, subject to the provisions of:  
Title 21 CFR 176.170 (components of paper and paperboard in contact with aqueous and fatty foods) without limitations,  
Title 21 CFR 176.180 (components of paper and paperboard in contact with dry foods) without limitations,  
Title 21 CFR 175.300 (resinous and polymeric coatings) without limitations.

PRINT DATE  
3/27/2012  
Rev. MCB



Bercen, Inc., 30140 Eden Church Road, Denham Springs, LA 70726, (800) 423-7236, (225) 664-7167, Fax (225) 665-7902, [bercen@bercen.com](mailto:bercen@bercen.com), is a division of Cranston Print Works Company. Nothing herein is to be taken as a warranty or representation. What is said in it is offered for your consideration, investigation, and verification. Nothing herein is to be understood as a permission to practice a patented invention without a license. No chemical should be used as or in a food, drug, or cosmetic, or in a product or process in which it may contact a food, drug, or cosmetic, until you have determined the safety and legality of the use.