

Bercen, Inc.



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BERCHEM® 4095*

COATING LUBRICANT

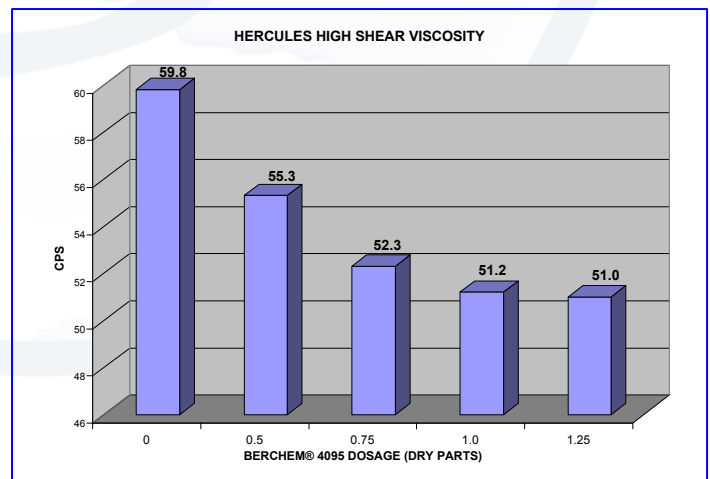
BERCHEM® 4095 is a 100% active coating lubricant designed specifically to improve the runnability of high speed coaters. Its unique molecular composition imparts rheological and water holding characteristics to all types of paper coating formulations. BERCHEM® 4095 effectively reduces or eliminates such problems as streaking, whiskering and blade weeping. In addition, BERCHEM® 4095 also provides a better printing surface and improved sheet and print gloss.

TYPICAL PROPERTIES

Type:	Diglyceride
Appearance:	Reddish brown clear liquid
Solids:	100% Active
Viscosity, Brookfield:	400 – 1,200 cPs (#2 spindle @ 20 rpm)
Specific Gravity:	0.98 – 1.00

ADVANTAGES

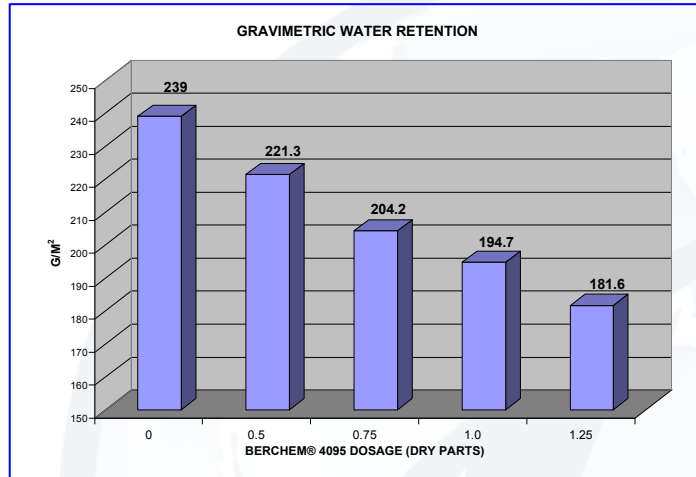
- ✓ Provides excellent rheological coating characteristics
- ✓ Eliminates whiskering, blade weeping, and blade scratches
- ✓ Improves runnability
- ✓ Increases water retention
- ✓ Improves ink holdout/gloss
- ✓ Allows higher solids coatings



* U.S. Patent Numbers 7,732,388

APPLICATION

The performance of BERCHEM® 4095 as a coating lubricant has proved superior to calcium stearate. While maximum benefits have been attained at higher speeds (above 4,000 fpm), overall benefits have been noted in all types of coating systems.



When BERCHEM® 4095 is added to a short-dwell coating formulation, whiskering at the blade rapidly disappears. This improvement in runnability is due to the ability of BERCHEM® 4095 to increase water retention and improve the rheological characteristics of the coating.

For initial trials, it is recommended that BERCHEM® 4095 be used at a level of 0.75

– 1.0 part based on pigment solids. BERCHEM® 4095 can be used with all types of binder systems as well as various pigments commonly used throughout the coating industry.

STORAGE STABILITY

BERCHEM® 4095 should be stored between 45°F - 90°F and has a shelf life of six months. Do not clean/flush lines and tanks with water: high viscosity gel will form that is difficult to clean. Heavy duty surfactant/water mix should be used for clean up.

SHIPMENT

BERCHEM® 4095 is shipped f.o.b. manufacturing plant.

FDA STATEMENT

Paper and paperboard treated with BERCHEM® 4095 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.

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