

Bercen, Inc.



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BERSIZE® 6409

SIZING AGENT

BERSIZE® 6409 is a complex, fiber-reactive, alkyl substituted synthetic nitrogen derivative effective over a wide pH range. BERSIZE® 6409 is designed for use as an internal size in place of rosin alum or rosin alum wax combinations. It can also be employed with fluorochemicals to obtain grease, oil and water resistant paper.

TYPICAL PROPERTIES

Type:	Imidazolidone
Appearance:	Off white emulsion
pH:	4.75 – 5.75
Solids:	29.0 – 31.0%
Viscosity, Brookfield:	50 cPs max. (#2 spindle @ 20 rpm)
Specific Gravity:	1.01 – 1.03
Brightness:	40 - 55

ADVANTAGES

- ✓ High solids synthetic emulsion
- ✓ Effective at neutral, acid or alkaline pH
- ✓ Liquid for easy handling
- ✓ Excellent heat stability
- ✓ Hard sizing at low usage levels
- ✓ Tolerates most wet end additives

APPLICATION

BERSIZE® 6409 is an internal size, which in most cases requires a retention aid. Cationic starches and cationic polyamide resins are being used effectively in commercial applications. Some mills have found that an addition of small percentages of an anionic retention aid, in conjunction with a cationic retention aid, provides excellent results. This would have to be determined for individual mill systems. For maximum efficiency and distribution, dilute BERSIZE® 6409 to 2-3% solids before adding to the system. Additions should be made as late in the process as possible. Generally, 0.2% - 0.6% solids based on the fiber provides a wide range of sizing values. Fan pumps, stuff boxes or head boxes are ideal places for application of BERSIZE® 6409. The retention aid can be added simultaneously with the size, or subsequently after the size. Typical retention aid levels with BERSIZE® 6409 are in the 0.5 to 1.0 lb/ton range. BERSIZE® 6409 can also be used as a surface size where high sizing or good ink holdout is required.

STORAGE STABILITY

BERSIZE® 6409 should be stored between 45°F. - 90°F. and has a shelf life of four months. The emulsion will be destroyed by freezing.

SHIPMENT

BERSIZE® 6409 is shipped F.O.B. manufacturing plant.

FDA STATEMENT

BERSIZE® 6409 is not FDA approved.

PRINT DATE

5/09/2011

Rev. MC4