



Bercen, Inc.
Where Innovative Solutions Begin!

BERSIZE® 6103

Reduces COF in Size Press Application - I

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MILL OVERVIEW:

Mill: Uncoated Free Sheet
Grades: Copy Paper
Furnish: Bleached Softwood/Hardwood
Machine: Fourdrinier
Production: 1200 tpd
Speed: 2300 fpm

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SYSTEM OVERVIEW:

Size Press: Flooded Nip and Blade Metered
Solids: 10%
Temp.: 150°F
pH: 8.0

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Size Press Additives:
SAA, Starch, H₂O Defoamer FWA

Wet End Chemicals:
Alum, Retention Aid, Potato Starch, ASA Size Defoamer

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MILL OBJECTIVE AND TESTING REQUIREMENTS:

Reduce COF of the final product by 20% at a cost of no more than \$2.00/ton.

PRE-TRIAL OBJECTIVES:

Corporate Research conducted all lab studies. **BERSIZE® 6103** was added to the size press formulation at various rates and the results were very linear. The lab study indicated a 25% reduction in COF at a dosage rate of 0.75 lbs per ton.

APPLICATION:

Applied 0.75 lbs. per ton directly into the starch day tank using a gear pump and back up pump.

RESULTS:

The trial was evaluated as a complete success. COF's were evaluated by Bercen personnel at each turn-up. Based on the mill objective test results, COF's improved approximately 28%.

Secondary benefits noted during rewinding were a dramatic reduction in rewinder vibration or jumping. This allowed crews to rewind faster and produce a more consistent product.

