



INDUSTRIAL CHEMICAL PRODUCTS



9001-2008 Certified Manufacturer

PM PAPER BRITE-N

Product Code: SP 1471

TECHNICAL DATA SHEET



GENERAL DESCRIPTION:

PM Paper Brite-N (Neutral pH) increases paper brightness 2-3 points while at the same time reducing bleaching costs by 60%. Typical addition rates are between 4 and 6.5 pounds per finished ton.

Let your S.P.I. representatives industry knowledge and chemistry paper industry application experience demonstrate to your mill a creative way of managing brightness adjustments. Our unique application of functional chemistry can bring up to 3 points brightness as measured at the dry end within 15 minutes after program start.

Our chemistry delivers on reducing production costs related to delivering brightness or adjusting brightness when required. Potentially eliminate off grade production during up sets more economically than with traditional brightening strategies.

Adjusting to a brightness swing can take as long as 2 hours or more to meet. With a reaction time of only 15 minutes PM Paper Brite-N potentially can shave hundreds of thousands per/year off the total cost of production.

The ability of PM PAPER BRITE-N to de-flocculate or disperse solid particles combined with its temperature and hydrolytic stability makes it a versatile additive for paper mill requiring efficient metal ion control.

(See our case history graph of the response curve using PM Paper Brite-N in one Paper Mill to adjust brightness on the fly below.)

Reduce Bleaching Costs

Assuming a furnish mix containing 10% to 15 % bleached pulp and a bleaching cost per ton of \$15.00 paper bright can reduce this cost by 60 %.

PM Paper Brite-N has the potential to remove part and in some cases all of bleached pulp from machine furnish.

Specifications:

Reduce the total cost of production

Using \$15/t, as a base line bleaching cost PM Paper Brite-N can reduce bleaching costs with a \$6.00/t cost a potential saving of \$9.00 /ton on bleach costs.

Using our example a mill producing 500 t/day will reduce the total cost of production using PM Paper Brite-N to meet brightness targets by \$4500 / Day.

Over a 350 day production year Paper Brite can generate cost savings of \$1,575,000.

React to Brightness Reversion

In a standard Fine Paper mill PM Paper Brite-N is applied to boost brightness as and when required when reversion is taking hold with a reaction time of 15 minutes.

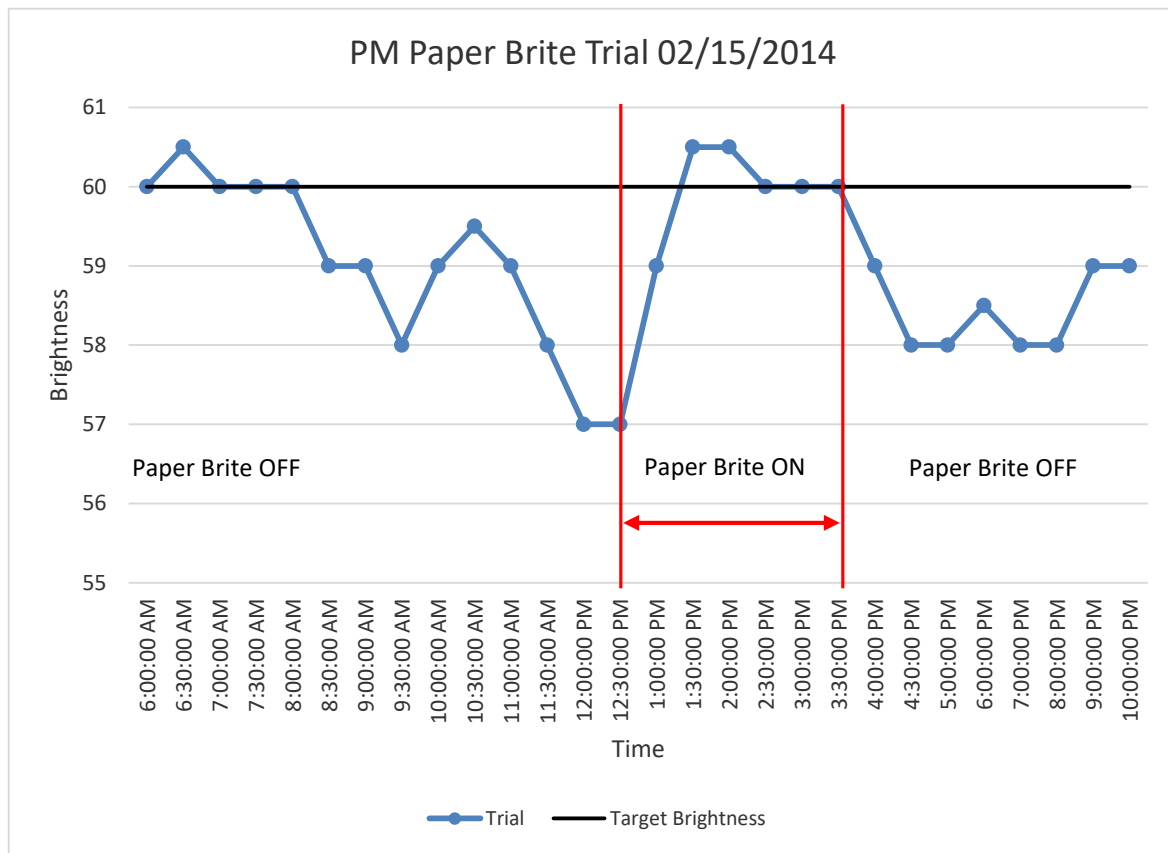
PM Paper Brite-N in this case reduces or removes secondary hydrosulfite bleaching.

Temporarily Adjust brightness when Pulp Mill struggles with poor quality wood

Frequently due to seasonal swings pulp mills must run darker than normal wood: brightness swings of 2-3 points during this period are quickly met as needed with the addition of Paper Brite.

Paper Brite Benefits:

- Reduced high bright pulp, lower or eliminate high bright pulp
- Reduce or eliminate peroxide addition rates
- Eliminate hydrosulfite or peroxide pulp on grades
- Adjust to seasonal poor quality furnish quickly and economically
- Reduce phosphoric acid pH control
- Neutralizes metals associated with darkening
- For every increase of brightness of paper, savings will be close to \$1,000,000.00. Based on reducing other chemistries that mills use to increase brightness.



PM Paper Brite-N can adjust brightness on the fly

Without PM Paper Brite-N adjustments may take hours to accomplish,

With PM Paper Brite-N, this can be accomplished within 15 minutes