



Technical Supplement

623 Spindle Bright

(Supplementary Performance Data)

Applications:

While developed specifically to aid mechanical cotton picking operations, Spindle Bright is excellent for a world of other applications.

Pulp and Paper: When converting wood pulp to fine printing paper, Spindle Bright is recommended as a pulp washing assistant to produce a cleaner stock. In bleaching operations, it improves bleached pulp brightness by 2 to 4 points (on a scale of 100), and it eliminates deposits and costly down time that occur with wash-ups and boil-outs of equipment.

In other applications, de-inking of waste papers take advantage of Spindle Bright's ability to wet and disperse, preventing a redistribution of ink on the paper. It can be added directly to the hydropulper or other de-inking equipment. Pulp drainage on the paper machine can be improved by applying Spindle Bright to the stock.

Textiles:

In the textile industry, Spindle Bright can be used to control foam and as an anti-static agent. For example, it gives acrylic carpet fibers durable static protection, which survives five thorough washings.

Rinse Aids: Rinse Aids for machine washing operations are a necessity for today's commercial establishments, and most modern home dishwashing machines are equipped with rinse aid injection devices. Only a small amount of Spindle Bright injected into the final rinse causes water to instantly sheet-off all surfaces being rinsed, leaving no spots.

Water Treating:

Spindle Bright keeps calcium and magnesium salts in solution, reducing hard water deposits in boilers and pipes without foaming under the high-pressure temperature conditions encountered in boiler water. The wetting characteristics of Spindle Bright increase the efficiency of commonly used corrosion inhibitors in cooling-water and air-conditioning systems to prevent the deposition of calcium carbonate and other slightly water-soluble salts.

Cutting and Grinding Fluids:

In cutting and grinding operations, the proper coolant is essential for speed, accuracy and equipment life. For years, specific heat, availability, and low cost of water have resulted in its use for this purpose, even though in several respects, it was something less than ideal. Now, thanks to the mechanism of inverse solubility, water's effectiveness as a cutting and grinding fluid may be improved by the addition of Spindle Bright. Here's why: At the cutting or grinding point, temperatures become extremely high, exceeding the solubility limit of 623.

When the temperature exceeds 140DF., Spindle Bright comes out of solution and coats the metal, providing cooling and lubrication at the cutting point. This results in longer tool life; few burned parts and improved surface finish. Spindle Bright keeps grinding wheels clean and porous, and prevents corrosion of ferrous and non-ferrous metals. Because of its emulsifying properties, 623 is useful in forming more stable water-soluble cutting oil mixtures.

Printing:

In the past, lithographic dampener roll cleaners used in the printing industry were far from ideal...their excessive foam made it difficult to know when the roll was really clean. Spindle Bright, however, provides a low-foaming, free-rinsing product which is ideal for this application. It makes it possible to clean dampener rolls by machine in one-half the time normally required, with little foam and no need for hard scrubbing.

Removal of Wallpaper:

Aqueous solutions of Spindle Bright are useful for the removal of wallpaper by insuring rapid wetting of the old paper and paste. The old paper can then be peeled off without scraping.

Fire Fighting:

A solution of 1 part Spindle Bright to 500 parts water is very effective for increasing the penetration of water into materials such as cotton balls, wood piles, and other burning objects where fires are difficult to extinguish. It is compatible with sulfuric acid, sodium bicarbonate, and calcium chloride. In addition, it helps prevent rusting and lubricates water valves.

Note: This Supplementary Data Sheet is to illustrate the diverse applications of the product. Due to the number of factors involved in so many applications, it is recommended that the user establish suitability of the product for his application in any particular case as 623 is not warranted except for its primary intended application.