



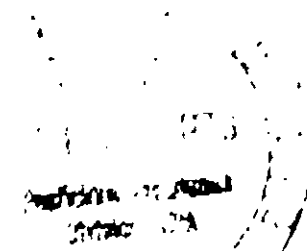
BUSPERSE 51T

RECEIVED
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FARMER RECORDS
PHILADELPHIA

PREPARED BY
BUCKMAN LABORATORIES, INC.
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PRODUCT DATA



Buckman Laboratories, Inc.

Dec 10, 1973

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precautions should be observed if the latter method is used. The Busperse 51T must be added to the water or aqueous solution rather than the reverse in order to avoid the formation of viscous gels. In water, Busperse 51T forms a homogeneous solution at concentrations greater than about 15 percent by weight, but viscosity increases as the concentration increases. At concentrations below 15 percent, Busperse 51T in water will form a system containing two liquid phases, and thus it is necessary to keep such solutions continually agitated until used.

Continuous Felt Conditioning

For continuous and uniform treatment of the felts, Busperse 51T should be added to the felt conditioning shower water at a location that will ensure complete dispersion of the Busperse 51T in the water before it reaches the felt. If time or turbulence is insufficient to assure adequate mixing at the point of addition selected, then the use of an in-line mixing nozzle or similar device is recommended.

A chemical-metering pump should be used to inject the Busperse 51T into the pipeline delivering water to the felt conditioning shower. Addition of Busperse 51T to the shower water should be started as soon as a new felt is rotated on the machine. Treatment should be continuous rather than intermittent, and the concentration of Busperse 51T should be maintained at the recommended level throughout the life of the felt.

When special showers for the application of Busperse 51T are installed, low-pressure, low-volume showers with a fan-shaped spray pattern are recommended. These should provide approximately 12 liters of water per 1,000 square meters (300 U.S. gallons of water per million square feet) of felt travel. The application shower should be located so that the Busperse 51T is applied to the felt as soon as possible after the felt leaves the sheet and as far ahead of the suction box, whippers, wringer rolls, etc. as possible in order to achieve the maximum action time for the Busperse 51T. For light to medium weight conventional or needled felts, application of Busperse 51T to the inside of the felt is preferable. For denser felts, the application shower should be located on the sheet side of the felt. Either a sheet-side or inside application can be effective as long as the felt passes over at least one roll that tends to force the Busperse 51T-water mixture into the felt before it is removed by suction equipment. Conventional suction equipment can be used to remove the treated water and foreign material from the felt. While the methods of application outlined above are recommended, Busperse 51T is also being successfully used with Vickery and Scofield types of felt conditioning equipment. On some machines, the only suction equipment used to remove the Busperse 51T and foreign material is a suction press.

Busperse 51T is added to the application shower water at concentrations between 40 and 80 parts per million. For best results, the water used on the felt showers should be heated to 50° to 60° C. (122° to 140° F.). It is also generally desirable to maintain the pH of the shower water equal to or slightly below the pH of the furnish, especially if large amounts of alum or sodium aluminate are used. The use of sulfuric, sulfamic, or inhibited muriatic acid is suggested for reducing the pH of the shower water to that of the white water.

Shutdown Cleaning

A solution of Busperse 51T can be used alone or in combination with acid or in combination with soda ash (sodium carbonate) to wash felts when the machine is not operating. A two-step washing sequence with Busperse 51T and acid followed by Busperse 51T and soda ash is generally the most effective.

An acidic wash solution can be made by adding 2.5 liters of Busperse 51T to 500 liters of water (0.5 U.S. gallon of Busperse 51T to 100 U.S. gallons of water) and sufficient acid to reduce the pH of the solution to 3.0. An alkaline wash solution can be prepared by diluting Busperse 51T with water in the same ratio and then adding 6 kg. of soda ash per 500 liters of solution (10 lb. of soda ash per 100 U.S. gallons of solution). The Busperse 51T should always be added to the water rather than the reverse.

