

## SOFTNESS AND FORMATION

Another example of paper properties experienced with High Purity Asbestos additions is illustrated in Table I. High Purity Asbestos was added to a 30 lb. wet creped towel and softness was found to improve over 20%. Additional benefits included improvements in wet tear, % stretch, and an obvious reduction of solids in the clarified water at the effluent of the savall.

**TABLE I**  
**TRIAL DATA**

|                                                    | <u>No Asbestos</u> | <u>With Asbestos in Paper</u> |           |           |
|----------------------------------------------------|--------------------|-------------------------------|-----------|-----------|
|                                                    |                    | <u>2%</u>                     | <u>3%</u> | <u>4%</u> |
| Basis Weight (lbs./24"x36"x48")                    | 30.0               | 30.1                          | 29.8      | 30.4      |
| Softness (Crush Test)                              | 2200               | 1700                          | 1680      | 1680      |
| Bulk (4 ply cap.)                                  | 0.267              | 0.268                         | 0.266     | 0.274     |
| % Stretch                                          | 6.5                | 7.4                           | 7.2       | 7.1       |
| <u>Wet Tensile Aged</u>                            |                    |                               |           |           |
| (one inch strip aged in oven at 108°C for 10 min.) |                    |                               |           |           |
| Machine Direction                                  | 2.7                | —                             | 2.8       | 2.7       |
| Cross Direction                                    | 1.7                | —                             | 1.5       | 1.6       |
| <u>Dry Tensile (one inch strip)</u>                |                    |                               |           |           |
| Machine Direction                                  | 9.6                | —                             | 9.3       | 8.6       |
| Cross Direction                                    | 5.7                | —                             | 5.5       | 5.5       |
| <u>Wet Tear</u>                                    |                    |                               |           |           |
| Machine Direction                                  | 30                 | —                             | 36        | 42        |
| Cross Direction                                    | 34                 | —                             | 42        | 52        |
| <u>Absorbency (1:10cc)</u>                         |                    |                               |           |           |
| Seconds                                            | 35                 | —                             | 33        | 35        |

Formation improvements are often dramatic with High Purity Asbestos addition.

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