FILE NAME: Borg Warner (BW)

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Borg-Warner Friction Replacement

WORK DONE 9-30-1971
AS ASSIGNED BY C.J. Lobas

Request: Borg-Warner requested that we start a program for them, in which all the friction grades have the asbestos replaced by some other material. The reasoning of which is that the Goverment and the public seem to think that asbestos is a health hazard. START with 660-E Furnish

Trial Run: L.P.M.-259-71

Furnish:

%	Material	Wgt. in grams
27%	- Special Filter Pulp #463	486
38%	- 112-475 Micro Fibers	684
35%	- Celite #388	630
	Guar Gum	2
	N-8 Solution	13
	Ammonia	50
	Latex #736	500 @ 7% Solution
	Alum	2900
	Calgon - metered	(on 8)

Test Results:

Basis Wgt. ...	220#
Caliper, mils ...	40
Mullen, dry ...	2
Densometer, 1.0in^2 ...	2
Gargoyle, sec ...	4
Dry Tensile, MD ...	1160
% Ash ...	70%

Densometer 0.1in^2 = 18

RECORDED 9-30 1971
BY Robert Consolini
E. & U. 9/30 1971
BY C.J. Lobas

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Comments: No problems were encountered with the drainage of this furnish. IT was impossible to dry the sheet in one pass. The sheet was rerun over the dryers, and the results was breaks in the web.

The dry sheet is very soft and seem to be very weak. The latex doesn't seem to give us much strength in this type of sheet. We either have to take it out or add wet strength resin to the sheet for extra strength.

Another problem we have is the lack of density. Chet seems to the this may be a plus, he's probably right.

The roll will be sent to Borg-Warner

Void

RECORDED 9-30-19 71
BY Robert Consolini
E. & U. 9/30 1971
BY C.T. Nelson