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SUBJECT: Demicronized Talc - #2006.01
Particle Size of Respirable Fractions

TO: Mr. G. Lee

At the last Task Force meeting in March, we were asked to supply data on the particle size distribution of respirable fractions collected from the carbowax 400 treated JBP samples we now have in aging study. These samples, listed below, were placed in aging to determine if the treated products maintain the reduced respirable particle levels imparted initially by the addition of Carbawax 400.

<u>Sample</u>	<u>(A) JBP</u>	<u>(B) JBP+0.25% Carbowax 400</u>	<u>(C) JBP with Demicronized Talc + 0.25% Carbawax</u>
Peak Resp. Particle Levels in mg/M ³			
Average for Three Months	9.3	2.5	0.5

Procedure:

The respirable fractions were collected in a 10mm nylon, cyclone, and deposited on the face of the quartz crystal in the TSI quartz crystal mass monitor. The particles were carefully removed from the quartz crystal by scraping into a 1.4l R.I. mounting fluid on a microscope slide, and stabilized with a cover glass. The particles were counted in 2 dimension projection and placed in one of 9 size categories from 1.2 to 19.0 microns. Specific count data and a graph of the results are in attached appendix I & II. Please note that a blank was run, and the blank count was subtracted from each set of results.

Results:

All three samples had maximum counts in the 6.7 micron range. The distribution curves for samples (a) and (b) are about the same. The curve for the demicronized talc shows a sharp fall-off of particles in the sizes below 6.7 microns (see graph, Appendix II).

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/by
attachment