

PLAINTIFF'S
EXHIBIT

JM-1999

Research & Engineering Center
April 3, 1970

File: 159-5

Fiber Counting and Sizing

The attached table reports data taken from the first series of grids prepared by G. Reinschuessel, et al., for the tracer technique. I am rather disappointed that the per cent fiber found in the "standard" samples via the "new" method is significantly less than the amount known to have been introduced; however, these values are substantially better than those obtained via the "old" method. Both methods were applied to the very same electron micrograph plates.

This data supports, in general, the conclusions of my last report: the "old" method overstates the total material present by a factor of about four (4), overstates the fiber volume by a factor of about two (2), with a net understatement of per cent fiber by a factor of about two (2).

George Reinschuessel, with development of the method, has found ways to assure even greater accuracy in several steps. With these refinements, current plans are to again process a "standard" sample plus a tagged sample of fiber alone. The latter sample will offer the opportunity to directly compare the weight calculated from the radiation counts and the weight calculated from fiber sizing.

I hope your vacation was relaxing, your paper at Cardiff a success, and your discussion with Turner Brothers fruitful (I'm selfishly banking on the latter!).

Best wishes.

A. F. Burns

BT

W. L. Dandack
J. F. Heinewer
V. L. Dandack
J. F. Heinewer

0006 0-168

NUJ00 60160 P.002

ACTS COMMENT

SOURCE - (Intermittent fixed weight on grid or weight on grid (in g) or weight on grid (in g) or weight on grid (in g))	OLD METHOD (Point count and fiber along with TRANSITS projections)	NEW METHOD		ANALYSIS (in g)
		Grids (to trace and fiber along with using probable no. of fiber/line/bundle over bundle)	Analysis (to trace and fiber along with using probable no. of fiber/line/bundle over bundle)	
1.4 1.0 x 10 ⁻⁴ 0.002	1.4 1.0 x 10 ⁻⁴ 0.002	0.39 6.0 x 10 ⁻⁴ 0.15	0.39 6.0 x 10 ⁻⁴ 0.15	0.39 6.0 x 10 ⁻⁴ 0.15
1.7 1.0 x 10 ⁻⁴ 0.002	1.7 1.0 x 10 ⁻⁴ 0.002	0.39 6.0 x 10 ⁻⁴ 0.15	0.39 6.0 x 10 ⁻⁴ 0.15	0.39 6.0 x 10 ⁻⁴ 0.15