

2-89 REV 1/78



E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED

WILMINGTON, DELAWARE 19898

POLYMER PRODUCTS DEPARTMENT

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PLAINTIFF'S
EXHIBIT
DUP-1946

July 31, 1984

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FROM: H. A. SMITH

H. A. Smith

ASBESTOS WORKPLACE PROTECTION FACTOR STUDY

Report attached for your information.

HAS/is
Attachment

DUP 0501559

Better Things For Better Living from Du Pont

DU 001298



E. I. DU PONT DE NEMOURS & COMPANY

INCORPORATED

HASKELL LABORATORY FOR TOXICOLOGY
AND INDUSTRIAL MEDICINE
P.O. Box 50, ELKTON ROAD
NEWARK, DELAWARE 19711

July 11, 1984

CENTRAL RESEARCH AND DEVELOPMENT DEPARTMENT

OSH COMMITTEE

ASBESTOS WORKPLACE PROTECTION FACTOR STUDY
INTERIM REPORT
MR-5526

The first phase of a study to determine workplace performance of half-mask air purifying respirators against asbestos is near completion. The purpose of this letter is to summarize preliminary findings of this study. A complete report will follow during 1984. This study involved collecting air samples from inside and outside of respirators (single use and elastomeric) while asbestos removal work was being done. The workplace protection factor was then calculated as the ratio of the outside concentration to the inside concentration.

All volunteers received standard training and fit tests (3M saccharin procedure) at the beginning of the study. Only respirators which passed the fit test were used in the workplace study.

Results to date are summarized in the attached table. Interim results from an ongoing laboratory study on filter efficiency against asbestos at Los Alamos National Laboratory are also reported.

A Safety and Occupational Health Division Bulletin will be issued to provide recommendations based on these results. Please pass this information on to appropriate people in your departments and sites.

STEPHEN W. DIXON
SECTION SUPERVISOR -
INDUSTRIAL HYGIENE

SWD/dar
Attch 1

DUP 0501560

DU 001299

WORKPLACE PROTECTION FACTORS (WPF)

<u>Respirator</u>	<u>Number of Samples</u>	<u>WPF Geometric Mean</u>	<u>WPF Range</u>	<u>Los Alamos Penetration</u>
AO R1050	7	52	9.7 - 970	< 0.1 - 2.8%
3M 6100	11	760	110 - 3200	< 0.1%
3M 9910	7	- 1800	550 - 5600	
Survivair, MSA F*	8	690	47 - 4200	< 0.1 - 2.0%
Survivair/MSA H**	6	180	12 - 7900	
North H	5	820	12 - 3100	< 0.1%

* F denotes a dust and mist (non-high efficiency) filter

** H denotes a high efficiency filter respirator.

SWD
Attachment

DUP 0501561

DU 001300