



AA

INDUSTRIAL HYGIENE REPORT

American Insulated Wire Corporation

Pawtucket, Rhode Island

[REDACTED]

— VISITED BY:	H. C. Perkins
— DATE OF VISIT:	4/8/82
— DATE OF REPORT:	4/27/82

LOSS CONTROL DEPARTMENT

Talc Dust TLV

Acknowledgement

The writer visited the plant on April 8, 1982 and met with Mr. John Pacheco, Safety Coordinator and Mr. Clovis Gauthier, Co-Director of Energy Conservation and Security.

Purpose

Honor a management request to evaluate the hazard potential to talc dust at the packing station for the mill conveyor in Department 11.

Limitation

Neither the visit of our representative under the terms of our policy nor the making of this report constitute an undertaking to determine or warrant that your premises or operations are safe.

Conclusion

Talc dust appeared to be controlled at the subject work station under conditions extant at time of visit.

Description of Operation Relating to Talc Dust Exposure

Strip rubber from the rubber mill passes through a trough of talc and water mixture then by conveyor to air dry before being hand-packed in transport container for further processing. Some of the talc adhering to the rubber is dislodged during the packing operation and becomes airborne. Respiratory protection is worn during packing.

Method of Sampling and Analysis

A personal sample was obtained in the breathing zone of the packer using an MSA Gravimetric pump and millipore filter. The sample was analyzed for talc concentration by light field microscopy in American Mutual's Industrial Hygiene Laboratory which is accredited by the American Industrial Hygiene Association.

The Threshold Limit Value for non-asbestiform talc is 20 million particles per cubic foot of air. See attached Air Analysis Table for laboratory findings.

Comment

Management is currently anticipating the installation of a drying tunnel for the rubber strip material and an automatic reel rewind at the packing station. This will not only further reduce talc dust build-up in the area but greatly reduce any worker exposures.

Date Sample Obtained: 4/8/82

PLANT American Insulated Wire

LOCATION Pawtucket, Rhode Island

AIR ANALYSIS TABLE

Sample No.	Time Mins.	Department 11 Location and Events	Concentration Talc (C)
1	75	Worker exposure at packing station for mill conveyor.	2.2

Threshold Limit Value

20

A-Milligrams per Cubic Meter

B-Parts per Million

C-Million Particles per Cubic Foot

D-Micrograms per Cubic Meter

E-Fibers per Cubic Centimeter