

Chapter

1. Asbestos Exposure Assessment, Risk Identification, and Substitutes

Section

B. Asbestos Exposure Assessment and Control in Occupational Settings

No./Title

**a-15. Polarized light microscopy (PLM) of asbestos**

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Bibliographic ID

OSHA ID-191

## Introduction

Asian context

This PLM procedure provides an economical technique for screening large numbers of samples. Despite some disadvantages, it is worth considering the PLM-based method for analyzing asbestos in bulk for Asian countries.

Critical appraisal

This method provides a detailed procedure of bulk asbestos analysis using PLM. Any material which is long, thin, and small enough to be viewed under the microscope can be considered an interference for asbestos.

Unique keywords

Abstract

**Background:** This method describes the collection and analysis of asbestos bulk materials by PLM techniques including central-stop dispersion microscopy. This method was designed and tested for internal use by OSHA personnel to determine compliance to OSHA PEL.

**Objective:** This method measures the presence of asbestos and its type and contents in a positive sample using PLM. Asbestos is identified on the basis of optical properties and its amount is estimated in relation to the rest of the bulk sample. Quantitative estimates are given in terms of percentages.



No available PDF

## Annotation

Fact 1

- Annotation is not provided for this factsheet.

Fact 2



Fact 3



Fact 4



Fact 5



## References

<http://www.osha.gov/dts/sltc/methods/inorganic/id191/id191.html>