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MELLON INSTITUTE OF INDUSTRIAL PHYSICS
DEPARTMENT OF RESEARCH IN CHEMICAL PHYSICS

MELLON INSTITUTE
Reports Division
Rec'd. AUG 19 1952

Fellow Mr. J. F. MorganResearchship Ref. No. 259Project Dust Analysis: Indemnity Insurance CompanyProject No. 259-2XNATURE
OF
REPORT

Preliminary _____
Progress _____
Final _____

Date of Report August 18, 1952Sample 1382, (P-1851).

Quartz, Fe_3O_4 , $\text{Fe}_2\text{O}_3 \cdot \text{H}_2\text{O}$ are present as minor constituents. The amount of quartz as estimated from the film is 4-8 percent.

Sample 1383, (P1853).

No diffraction lines appeared on the film.

PLAINTIFF'S EXHIBIT

IHF-412

Sample 1384, (P-1852).

This sample gives a diffraction pattern like that of sample 1382 except that it is weaker and the amount of quartz is estimated to be 2-6 percent.

The diffraction patterns given by samples 1382 and 1384 only represent 20-30% of the total sample. Even though asbestos may be present in considerable amount in these three samples, it cannot be detected because of the very poor diffraction pattern it gives. The quartz contents cannot be specified with the usual precision because of the superposition of the 3.33 Å line by $\text{Fe}_2\text{O}_3 \cdot \text{H}_2\text{O}$.

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