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A Catalog of Optical Extinction Data for Various Aerosols/Smokes

Authors: Merrill Milham; EDGEWOOD ARSENAL ABERDEEN PROVING GROUND MD

Abstract: Extinction spectra in the 3- to 5-, 8- to 13-, and 0.4 to 2.4- micrometer spectral region have been obtained for FS (Chlorosulfonic acid + Free SO3), red phosphorus, HC (Zinc **oxide**, **Aluminum**, Hexachloroethane), and fog oil smokes. A limited number of theoretical predictions based on Mie theory are also presented and compared with the experimental results. The experimental and computational procedures are described in some detail. These findings are subject to revision; the final report will be published later.

Limitations:	✔ APPROVED FOR PUBLIC RELEASE
Description:	Special pub. 22 Aug-5 Dec 1975
Pages:	83
Report Date:	JUN 1976
Report Number:	A005430

Keywords relating to this report:
- *AEROSOLS
- *INFRARED SPECTRA
- *SMOKE
- ALUMINUM
- CHLORINE COMPOUNDS
- HYDROCARBONS
- INFRARED SPECTROSCOPY
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