

THERMAL CONDUCTIVITY OF APOLLO 12 FINES

by

C. J. Cremers
Department of Mechanical Engineering
University of Kentucky

ABSTRACT

The thermal conductivity of Apollo 12 fines was measured for vacuum conditions over a temperature range from 100°K to 400°K . Measurements were made at densities of 1.30 and 1.64. The results show an increase in thermal conductivity with temperature and also with density. An empirical equation has been found that expresses the thermal conductivity as a function of temperature. The results are compared with those for the Apollo 11 fines.