13. ABSTRACT

The thermal and electrical conductivity of ionized argon in chemical equilibrium has been computed for temperatures from 3000 - 25000 °K at pressures from 0.001 - 1000 atm. Values are given here for these properties with and without an imposed DC magnetic field up to 200kGauss. A comparison is made of the computed properties with measurements in the wall-stabilized arc.

DD FORM 1473

Unclassified

Security Classification

Wright Patterson Air Force Base, Ohio

Security Classification LINK A LINK B LINK C KEY WORDS ROLE ROLE ROLE Ionized Argon DC Magnetic Field Wall-Stabilized Arc