

Standard Methods of

TESTING STEATITE USED AS ELECTRICAL INSULATION¹



A.S.T.M. Designation: D 667 - 44

ADOPTED, 1944.²

This Standard of the American Society for Testing Materials is issued under the fixed designation D 667; the final number indicates the year of original adoption as standard or, in the case of revision, the year of last revision.

Scope

1. These methods outline procedures for making the various tests described when they are required for an investigation or examination of steatite used as electrical insulation. They are not to be interpreted as forming test specifications for complete insulators.

NOTE.—The glaze on a steatite part may affect certain properties of the material, depending not only upon its presence but also upon its thickness and composition. While these methods were developed for testing unglazed specimens, they are equally suitable for glazed specimens. The report should in all cases indicate whether the specimens tested were glazed or unglazed.

POWER FACTOR AND DIELECTRIC CONSTANT

Procedure

2. Power factor and dielectric constant shall be determined in accordance with the Tentative Methods of Test for Power Factor and Dielectric Constant of Electrical Insulating Materials (A.S.T.M. Designation: D 150) of the American Society for Testing Materials.³

¹ Under the standardization procedure of the Society, these methods are under the jurisdiction of the A.S.T.M. Committee D-9 on Electrical Insulating Materials.

² Prior to adoption as standard, these methods were published as tentative from 1942 to 1944.

RESISTIVITY

Procedure

3. Resistivity shall be determined in accordance with the Standard Methods of Test for Insulation Resistance of Electrical Insulating Materials (A.S.T.M. Designation: D 257) of the American Society for Testing Materials.³

DIELECTRIC STRENGTH

Procedure

4. Dielectric strength shall be determined in accordance with the procedure described in Sections 19 to 22 of the Standard Methods of Testing Electrical Porcelain (A.S.T.M. Designation: D 116) of the American Society for Testing Materials.³

POROSITY

Procedure

5. Porosity shall be determined in accordance with either of the procedures described in Sections 31 to 41 of Standard Methods D 116.³

³ Appears in this publication, see Contents in Numeric Sequence of A.S.T.M. Designations at front of book.