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High-Temperature Guarded-Hot-Plate and Pipe Measurements: 2nd Operators Workshop (March 19-20, 2012) Co-sponsored by ASTM Committee C16 on Thermal Insulation

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High-temperature Guarded-hot-plate and Pipe Measurements U.s. Department of Commerce, Robert Zarr, Thomas Whitaker, Frank Tyler, 2014-06-12 The workshop on high temperature guarded hot plate and pipe measurements was held on March 19 20 2012 at the National Institute of Standards and Technology NIST in Gaithersburg Maryland USA The workshop was co sponsored by the ASTM International Subcommittee C16 30 on Thermal Meas urement and by the National Institute of Standards and Technology This was the second workshop in a series that specifically focused on the needs of operators conducting these types of measurements High-Temperature Guarded-Hot-Plate and Pipe Measurements National Institute of Standards and Technology, Nist, 2014-02-24 he workshop on high temperature guarded hot plate and pipe measurements was held on March 19 20 2012 at the National Institute of Standards and Technology NIST in Gaithersburg Maryland USA The workshop was co sponsored by the ASTM International Subcommittee C16 30 on Thermal Measurement and by the National Institute of Standards and Technology This was the second workshop in a series that specifically focused on the needs of operators conducting these types of measurements **Guarded Hot Plate and Heat Flow Meter** Methodology C. J. Shirtliffe, R. P. Tye, Ronald Phillip Tye, 1985 **Standard Test Method for Steady-state Heat Flux** Measurements and Thermal Transmission Properties by Means of the Guarded-hot-plate Apparatus ASTM Committee C-16 on Thermal Insulation, ASTM Subcomittee C16.30 on Thermal Measurement, 2004 Guarded Hot Plate and Heat Flow Meter Methodology C. J. Shirtliffe, R. P. Tye, 1985 Standard Practice for Using a Guarded-hot-plate Apparatus Or Thin-heater Apparatus in the Single-sided Mode ASTM Committee C-16 on Thermal Insulation, ASTM Subcomittee C16.30 on Thermal Measurement, 2007 Historical Review of the Metered Section Area for the Guarded-Hot-Plate Method Robert R. Zarr, Stacy M. Bruss, David. L. McElroy, 2018 Results of an extensive literature review and investigation of the metered section area for the guarded hot plate method standardized as ASTM C177 Standard Test Method for Steady State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded Hot Plate Apparatus are presented The guarded hot plate apparatus is a primary linear heat flow method generally used to determine the thermal conductivity of insulating and building materials The review examined technical publications from 1885 to 1990 and identified 31 papers of interest Historical versions of ASTM C177 were also researched as well as test methods from other standard development organizations The investigation revealed that over the past 100 years researchers have independently developed two main approaches for the computation of the metered section area An assessment of the calculation techniques is presented for round plates with diameters from 250 to 1 000 mm a guard to meter aspect ratio of 2 and guard gap widths of 14 mm The gap effects are not negligible because large gaps 4 mm on small plates 250 mm can lead to errors of 10 % or more on the computation of the metered section area ultimately affecting the uncertainty of the test

results of the guarded hot plate method The results of this study are applicable to other thermal conductivity test methods that employ a primary thermal guard to promote 1 D heat flow Standard Practice for Guarded-hot-plate Design Using Circular Line-heat Sources ,2024 Present and Future Research on Guarded Hot Plate and Heat Flow Meter Apparatus F. De Ponte,1985 The paper discusses some problems related to the guarded hot plate GHP and heat flow meter HFM apparatus that justify today research efforts and future research programs For the GHP these include the problem of imbalance detection and its correlation with the metering area definition the problem of gap width and the problem of apparatus speed Also discussed are the specimen related issues involved in measurements on rigid highly conductive materials and mass transfer within the specimen during tests

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