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Emissometer Adapter Model AE-AD3 (For use with Emissometer Model AE1)



Emittance measurements with the Emissometer Model AE1 and the AE-AD3 adapter can be made on flat areas as small as approximately 0.9 inches (2.3 cm.) in diameter. Typical applications include making measurements on a small sample coupon of a material, and measuring a small available flat area on a larger sample. The adapter will clear a vertical obstruction up to 1 inch in height around the area to be measured.

The adapter is held in place on the Emissometer by two nylon screws. From the collar that fits around the Emissometer, the adapter steps down to a 1.5 inch diameter tube, and then to a conical section at the end of which is the measurement port. The interior of the tube is covered with a highly reflective and specular material. This reflective material directs the thermal radiation exchange between the detector and the sample allowing the instrument to be calibrated to read emittance of the sample.

An aluminum weight is included with the adapter. It is installed over the Emissometer detector to give it stability when using the adapter. The detector must sit flat against the emittance standards and the surface to be measured.

