

**UNIQUE CAPABILITIES DEVELOPED AT ORNL FOR TESTING
ADVANCED CERAMIC MATERIALS AT EXTREME TEMPERATURES***

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ABSTRACT

The unique equipment developed at ORNL for testing advanced engineering ceramics and measuring creep deformation in the temperature range 1200 to 1500EC will be described. This equipment, which has been licensed and commercialized, has been successfully used to generate reliable information for structural design applications. Data will be presented for long-term (greater than 20,000 hours) mechanical behavior of advanced ceramics at high temperatures that are important for component designers.

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