

HIGH TEMPERATURES TESTING CAPABILITIES

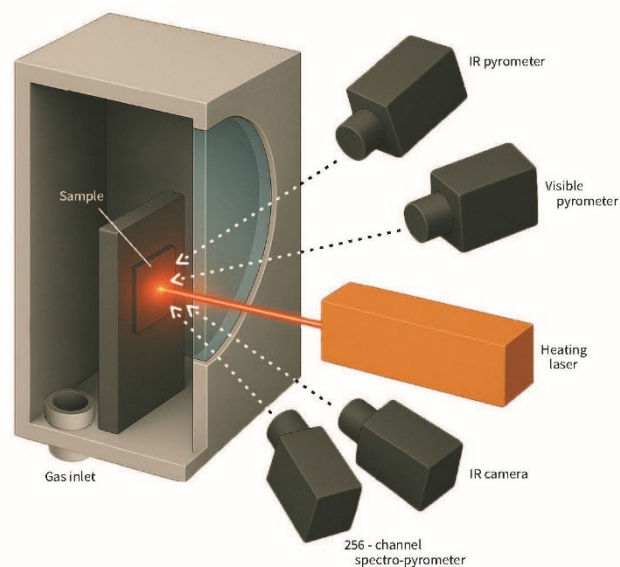
Thermal Conductivity & Melting Temperature Measurements*

Temperature range	Room temperature to 4,000 °C Including solidus and liquidus temperatures
Sample size requirements	Minimum: 1 cm x 1 cm Thickness: 2 mm to bulk

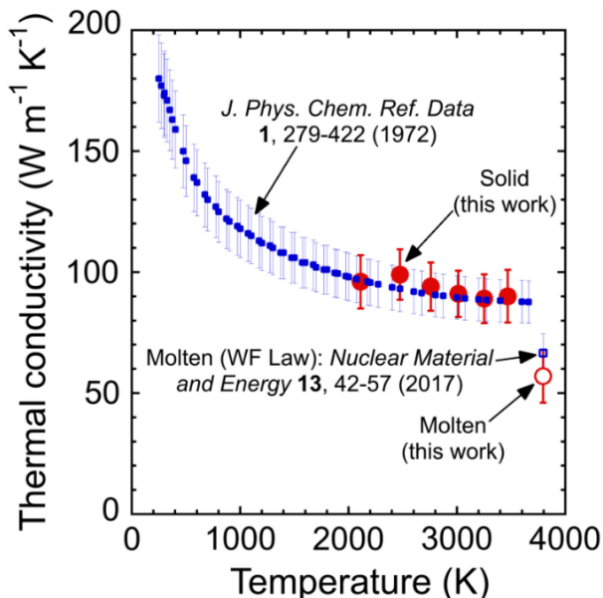
Emissivity Measurements*

Room temperature to 1,000 °C	Spectral range: 2 µm to 40 µm
300 °C to 2,000 °C	Spectral range: 1.1 µm to 1.7 µm
1,500 °C to 4,000 °C	Spectral range: 0.5 µm to 1 µm

** Please note that these measurements are sample dependent and consultation with Laser Thermal is required prior to sending samples for testing.*



Thermal conductivity vs. temperature



Melting temperature, emissivity, and thermal conductivity of rare-earth silicates for thermal and environmental barrier coatings

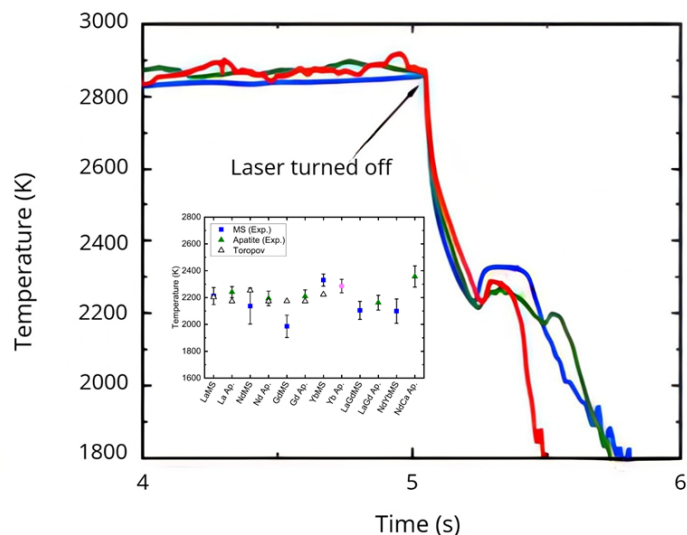
Hunter B. Schonfeld, Milena Milich, Cameron Miller, Laura Doumaux, Mackenzie Ridley, Thomas Pfeifer, William Riffe, Davide Robba, Luka Vlahovic, Konstantinos Boboridis, Rudy J.M. Konings, Adam Chamberlain, Elizabeth Opila, Patrick E. Hopkins

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Melting temperature and temperature over time



Validation of the Wiedemann-Franz Law in Solid and Molten Tungsten above 2000 K through Thermal Conductivity Measurements via Steady-State Temperature Differential Radiometry

Milich, Milena and Schonfeld, Hunter B. and Boboridis, Konstantinos and Robba, Davide and Vlahovic, Luka and Konings, Rudy J. M. and Braun, Jeffrey L. and Gaskins, John T. and Bhatt, Niraj and Giri, Ashutosh and Hopkins, Patrick E.

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