

309.7 - Fracture Toughness of Ceramics

[SRMs 2100a and 2100b Fracture Toughness of Ceramic are intended for verification of fracture toughness testing procedures and may be used in conjunction with ASTM Standard Test Method ASTM C1421-99 "Standard Test Methods for Fracture Toughness of Advanced Ceramics."](#)

A unit of SRMs 2100a or 2100b consists of five hot-pressed silicon nitride flexure specimens. Each specimen is 3 mm x 4 mm x (45 to 47) mm. The SRM may be used with any fracture toughness test method, but is optimized for beam bending test configurations.

See certificate for fracture toughness value.

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	Description	Unit Size
<u>2100a</u>	Fracture Toughness of Ceramic	5 bars
<u>2100b</u>	Fracture Toughness of Ceramic	5 bars

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- Certified values are normal font
 - Non-certified or reference values are italicized
 - Non-certified values in parentheses are for information only