

INDENTATION SIZE EFFECT OF AL₂O₃ CERAMICS MADE BY COLD ISOSTATIC PRESSING AND SLIP CASTING

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Abstract: *The behaviour of indentation size effect (ISE) in Vickers hardness for alumina ceramics made by cold isostatic pressing (CIP) and slip casting (SC) is compared. To explain the origin of the ISE in alumina ceramics, the three approaches is proposed: the traditional Meyer Law; proporcional specimen resistance (PSR) model and modified proporcional specimen resistance (PSR) model.*

Key words: *indentation size effect, hardness, alumina ceramics, modeling*



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