


Microstructure control of ceramic matrix nanocomposites (Technion)

code: CHM-1097

A method facilitating a way to obtain ceramic nanocomposites via a safe and very low cost process yielding ceramics with improved strengths and with a significantly improved Weibull modulus. The material also shows remarkable wear properties. Example applications include ceramic cutting tools, ballistic armor, car brake pads, parts for textile fabrication, advanced ceramics for a multitude of applications in the semiconductor manufacturing industry (e.g., capillaries for wire-bonding), and electronic components.

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