

PRESSURELESS SINTERING OF WHISKER REINFORCED ALUMINA COMPOSITES

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ABSTRACT OF THE DISCLOSURE

10 A composite and pressureless sintering process for making whisker-reinforced alumina composites using about 2 wt% to about 7.5 wt% of a nitride modifier consisting essentially of silicon nitride, aluminum nitride, or mixtures thereof produces a sintered body having a density of greater than about 95% theoretical.

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