Fracture Behavior of Boron Nitride/Aluminum Metal Matrix Composites

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ABSTRACT
Boron nitride (BN) reinforced aluminum based composites are manufactured by stir casting route. The volume fraction of BN is varied as 10, 15 and 20 vol.% in the aluminum matrix. BN play an active role in strengthening Al matrix through effective load bearing and transfer by crack bridging.

Figure 1: Fractographs of BN/AL metal matrix composites (a) 10% BN (b) 15% BN and (c) 20% BN

References


