

Effect of Processing Temperature on Pure Al/Sic Metal Matrix Composites Produced by The Lanxide Process

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Abstrak

Pure Al/SiC metal matrix composites (MMC) have been successful produced by the Lanxide process with different processing temperature for 8 hours. The process is simply without aid externally pressure. However, N₂ oxygen free was flushed during the process. Molten pure Al has fully infiltrated to the preform with Si/1% Mg at 750, 800, 850, 900 and 1000°C but infiltration did not occur to the preform with 3Vj% Mg. Voids exist above the infiltrated preform in the systems with higher temperature (900 °C and 1000°C) for 8 hours. Such voids were not formed in the systems with low temperature. This paper described the investigation into the production of pure Al matrix composites, the effect of processing temperature will be investigated and the resulting will be fully characterised.