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(57) Abstract :

The present invention relates to a method of producing silicon-carbide composite matrix for heating ventilation and air conditioning (HVAC) comprises of the following steps including mixing silicon carbide (SiC) powder with a polymer resin to create a homogenous mixture; molding the homogenous mixture; pouring the mixture into a mold and allowing it to cure and harden; sintering the composite prepared by hardening; cutting and shaping the sintered composites into desired shape; and polishing the surface of the composite for improved durability.

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