



## Ti-Activation and Kinetic of Fe-Alloy Infiltration into Porous Alumina

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Condition: New. Publisher/Verlag: Éditions universitaires européennes | Activation Mechanism and Kinetic Study of Fe-based Alloy Infiltration into Porous Ti-activated Alumina Preforms | Metal Matrix Composite (MMC) is a composite material consisting of at least two phases. A Matrix, generally it is an alloy and reinforcement, commonly represented by carbide, nitride or oxide ceramics. The main advantage of MMC compared to ceramics and metals is the combination of ceramic and metallic properties, such as e.g., reliability, fracture toughness, plastic deformation, failure tolerance for metals and high strength, low thermal expansion, wear and corrosion resistance for ceramics respectively. There is an increasing interest in using MMC in applications where materials must have properties common to both metals and ceramics. Fields of application can be found in the automotive, pharmaceutical and food industry or energy technology. This work aims at obtaining comprehension of the activation mechanism and infiltration kinetic that occur during the manufacturing of MMC when using the proposed material combination Ti-Al<sub>2</sub>O<sub>3</sub>/ Fe-based alloy. | Format: Paperback | Language/Sprache: english | 116 pp.



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