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Characterisation of Al-Ti-B grain refiners prepared by aluminothermic reduction of TiO2 and B2O3

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LIST OF SYMBOLS

Angle of contact between solid metal and substrate……...θ

Interface strain…….ε

Lattice constant……...a

Interface……...I

Phases ……..α, β

Lattice mismatch…….……δ

Interface energy due to the matching in the coherent region……ε_E

Interface energy due to the matching in the dislocation……ε_S

Growth restricting factor.....GRF

Micron……...…….μm

Grain refiners prepared in electric resistance furnace……...……Elec

Grain refiners prepared in induction furnace…… ……..Ind

Grain refiners prepared in arc button furnace…….Arc