

SELECTION OF NEW HEAT-RESISTANT NICKEL ALLOYS FOR ADVANCED AVIATION ENGINES

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New nickel and blade materials for parts of advanced gas turbine engines have been considered in this work. It has been shown that disc materials with increased strength properties and blade sparingly doped alloys with small specific weight meet requirements regarding the service life and reliability of advanced aviation engines.

High-temperature nickel alloys; single-crystal alloys; transpiration system of cooling; sparingly alloyed alloys

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