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The Superalloys Fundamentals And Applications

M.E. Kassner, J.S. Tiley, in Fundamentals of Creep in Metals and Alloys (Second Edition), 2008 Publisher Summary. Superalloys (that often have an ordered intermetallic phase as the majority component) have a continued important role in high-temperature materials applications. This chapter discusses superalloys, which are an example of at least two phases, one ordered and one disordered.

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Nickel-Based Superalloys for Advanced Turbine Engines ...

Due to its outstanding mechanical, chemical and welding attributes, it is useful in wide range of applications In the case of IN718 superalloys, the oxidation kinetics obeyed the parabolic time dependency by forming a dense and protective Cr₂O₃ scale externally which reduced the rate of oxidation reaction as the growth of Cr₂O₃ layer continued via ions migration process (as ...

Microstructural characterization and oxidation performance ...

Hastelloy C-276 Composition. Hastelloy is a nickel-based superalloy with more than 50% nickel and significant amounts of molybdenum and chromium. There are also small amounts of cobalt, tungsten and manganese in Hastelloy C-276. As with most industrial alloys, Hastelloy C-276 is defined in weight percent (wt%), with a minimum and maximum alloying tolerance.

Hastelloy C-276 (Composition, Properties, and Applications ...

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