

High temperature corrosion of aerospace alloys

AGARD - High



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New High Temperature Alloy for Aerospace Applications

As early as the 1870s, the amount of titanium alloy in Russian aero-engines reached 50% of the metal parts products. In recent years, it is worth noting that the amount of titanium alloy in military aircraft engine products has shown a downward trend, on the contrary, the amount of titanium alloy in large-scale civil engines has shown an upward trend.

Leading High

Carburization often causes the alloy to experience embrittlement or degradation of other mechanical properties.

New High Temperature Alloy for Aerospace Applications

A continuous chromia inner layer formed, but a manganese-rich spinel MCr₂O₄ with M a mixture of Mn, Fe and Ni layer grew on top. It is mainly used to manufacture discs, blades, air intake receivers and aircraft structural parts in compressors.

High Temperature Titanium Alloy

Above 640 °C, no iron III sulfate was found. The surrounding oxide lattice then relaxes, maintaining adhesion.

Leading High

Hollie Cockings, in , 2020 Abstract This article provides an insight into the nature of high temperature corrosion mechanisms that can prove detrimental to alloy performance when operating within aggressive environments, such as those within the power generation sector and other industrial environments. Industrial processes where fuels or feedstocks are contaminated with impurities such as sodium or potassium allow halogens to react with these impurities to form NaCl and KCl. Oxidation of this type may form scaling and internal voids that affect the integrity and structural capability of a material.

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