

## عنوان مقاله:

100.000h PERFORMANCE OF SUPERALLOYS IN GT

## محل انتشار:

چهارمین کنگره ملی خوردگی ایران (سال: 1374)

تعداد صفحات اصل مقاله: 12

## نویسنده:

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## خلاصه مقاله:

The purpose of this paper is to review corrosion processes and experience related to the good performance of gas turbines for over 100 000h operation. Some of the main features of the high temperature corrosion of superalloys concerning the interaction between contaminants and the establishment of protective scale have been explained. The important competition between surface Cr<sub>2</sub>O<sub>3</sub> scale development and internal corrosion penetration is emphasized and extended to explain the existence or not of an incubation period, the temperature dependence and contaminant flux, under the real operating conditions of the GT S. The emphasis here is made to further understand the mechanism of protection which was afforded by several superalloys, through detailed microstructural and morphological investigation of Cr<sub>2</sub>O<sub>3</sub> scale. Such understanding is necessary if advances in hot section turbine material are to be achieved.

## کلمات کلیدی:

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/34977>

