



航空学报 » 1989, Vol. 10 » Issue (9) :517-520 DOI:

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## FGH95粉末高温合金应力时效的组织和相分析

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## THE STRUCTURE AND PHASE ANALYSIS OF P/M SUPERALLOY FGH 95 DURING STRESS AGEING

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摘要

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摘要

FGH95合金用于制造飞机发动机涡轮盘。曾有人对该合金长期时效的组织变化进行过研究,考虑到涡轮盘受温度和应力的双重作用,研究该合金长期应力时效过程中的相变规律和组织稳定性更有实际意义。

关键词: 热等静压 相变 应力时效

Abstract:

The phase transformation behavior and microstructural stability of P/M superalloy FGH95 in the long time stress ageing have been studied. It has been found that the hot-isostatically pressed FGH 95 alloy, which is in solution and ageing state and is subsequently subjected to long time stress ageing at 650°C and lower temperatures consists of  $\gamma$ ,  $\gamma'$ , MC, M23C6 and M3B2 phases. A certain amount of secondary  $\gamma'$  coarsened, while some dissolved during the stress ageing. The  $\gamma'$  and minor phases contents showed a tendency to increase and grain boundary precipitation also increase as the stress ageing time increased. This alloy exhibits a relatively good structural stability.

Keywords: hot-isostatical press (HIP) phase transformation stress ageing

Received 1988-11-03;

引用本文:

臧鑫士;郭淑平;李晓欣. FGH95粉末高温合金应力时效的组织和相分析[J]. 航空学报, 1989, 10(9): 517-520.DOI:

Zang Xinshi;Guo Shuping;Li Xiaoxin. THE STRUCTURE AND PHASE ANALYSIS OF P/M SUPERALLOY FGH 95 DURING STRESS AGEING[J]. Acta Aeronautica et Astronautica Sinica, 1989, 10(9): 517-520.DOI:

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