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碳/碳复合材料刹车盘刹车性能研究

田广来

兴平42号信箱 陕西省兴平县 713106

THE STUDY OF BRAKE PROPERTY OF BRAKE DISCS C-C COMPOSITES

Tian Guang-lai

Box 42 of Xingping Country, Shaanxi Province, 713106

摘要

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摘要 论述了碳/碳复合材料刹车盘的刹车特性。在不同的能量、刹车压力、使用环境条件下的全尺寸碳/碳复合材料刹车盘试验结果表明,碳/碳复合材料刹车盘刹车性能随刹车能量、刹车压力的提高,环境湿度的增大而衰减。碳刹车盘的静摩擦系数比钢刹车低得多(接近50%),随着刹车盘温度的升高,其静摩擦系数降低。

关键词: 碳盘 刹车特性 复合材料

Abstract: This paper describes the brake property of brake discs carbon-carbon composite. The brake property of full-scale brake discs carbon-carbon composite was tested under different energy, brake pressure and environmental conditions using a laboratory dynamometer. Results indicate that the brake property was decreased as brake energy, brake pressure and environmental humidity were increased. The static coefficient of carbon brake discs is much less than that of steel (approx 50%). As the temperatures of carbon brake discs was increased, the static coefficient was decreased.

Keywords: carbon discs brake property composites

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