

## Investigation of Tribotechnical Properties and Behavior of Infiltrated Materials on Iron Base

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### Abstract

Considered is a behavior of friction of a pair “antifriction sintered infiltrated material – hardened steel” with lubricating material in conditions of a centralized contact. Conditions of a friction surface grinding, a composition of iron base and infiltrate on a copper base essentially effect on a topography of contacting surfaces and tribotechnical characteristics. Momentary and medium friction coefficients, temperature levels in the contact zone and an intensity of wear-out of the infiltrated materials on iron base are considerably lower as compared with a cast tin bronze.