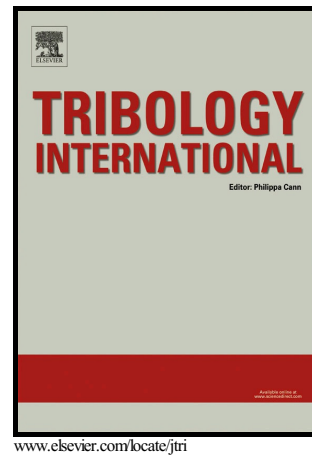


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Investigation of Running-in Process in Water-based Lubrication Aimed at Achieving Super-low Friction

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Abstract

In this work, effects of running-in process on achieving super-low friction between silicon nitride ball and sapphire disc under lubrication of mixtures of sulfuric acid and glycerin, was investigated. The results revealed that sulfuric acid plays the key role in the running-in process. Owing to this acid, a smooth worn region was generated on the silicon nitride ball through

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