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SPECIFICATION

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**Natural graphite brush for rotating  
electrical machinery –  
Basic characteristics**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**NATURAL GRAPHITE BRUSH FOR  
ROTATING ELECTRICAL MACHINERY –  
BASIC CHARACTERISTICS**

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Following publication of this PAS, which is a pre-standard publication, the technical committee or subcommittee concerned will transform it into an International Standard.

This PAS shall remain valid for an initial maximum period of three years starting from 2005-01. The validity may be extended for a single three-year period, following which it shall be revised to become another type of normative document or shall be withdrawn.

# **NATURAL GRAPHITE BRUSH FOR ROTATING ELECTRICAL MACHINERY – BASIC CHARACTERISTICS**

## **1 Scope**

This PAS applies to brushes for commutators and slip-rings in rotating electrical machinery.

This excludes brushes of electrical appliances such as starters of automobiles and tractors, micro-appliances for household and tools, appliances for aeronautics and space, and others operating in special conditions.

## **2 Normative references**

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60276, *Definitions and nomenclature for carbon brushes, brush-holders, commutators and slip-rings*

IEC 60413, *Test procedures for determining physical properties of brush materials for electrical machines*

IEC 60773, *Test methods and apparatus for the measurement of the operational characteristics of brushes*