



SURFACE VEHICLE RECOMMENDED PRACTICE

J2975™

JUL2020

Issued 2011-12
Revised 2015-05
Stabilized 2020-07

Superseding J2975 MAY2015

Measurement of Copper and Other Elements in Brake Friction Materials

RATIONALE

This document has been determined to contain basic and stable technology which is not dynamic in nature.

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1. SCOPE

This procedure describes a method for generating, preparing and analyzing samples of new and unused brake friction materials for their chemical constituents.

1.1 Purpose

This recommended test practice is intended to establish a standardized and repeatable method for analyzing the amount of specific chemical elements in a new and unused brake friction material. Results from this test practice provide the basis to determine the appropriate environmental marking per SAE J866.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J866 Friction Coefficient Identification and Environmental Marking System for Brake Linings

2.1.2 EPA Publications

Available from the United States Environmental Protection Agency (EPA), <http://www.epa.gov>.

EPA Method 245.5 Mercury in Sediments (Manual Cold Vapor Technique)

EPA Method 3050B Acid Digestion of Sediments, Sludges and Soils

EPA Method 3051A Microwave Assisted Acid Digestion of Sediments, Sludges, Soils and Oils

EPA Method 6010C Inductively Coupled Plasma - Atomic Emission Spectrometry

EPA Method 6020A Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)

EPA Method 7471B Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)

EPA Method 3060A Alkaline Digestion for Hexavalent Chromium

EPA Method 7196A Chromium, Hexavalent (Colorimetric)

EPA Method 7199 Determination of Hexavalent Chromium in Drinking Water, Groundwater and Industrial Wastewater Effluents by Ion Chromatography

EPA/600/R-93/116 Method for the Determination of Asbestos in Bulk Building Materials



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