

NAVISTAR, INC.		
Material, Parts, and Process Specifications (MPAPS)		NUMBER: MPAPS BT-31
		Former Designation: CEMS BT-31
TITLE: Volatile Matter Test Adapted from ORD JR-OME PD #115 dated 21 November 1956		CURRENT REV No.: 1412
		DATE: Dec. 2014
WRITTEN/EDITED BY: Materials Engineering	APPROVED BY: Materials Engineering	SUPERSEDES: CEMS BT-31 - August 2009
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Change Notice: Update to MPAPS format.		

1.0 APPLICATION

This method covers a procedure for determining evaporation loss in a product such as engine cooling system stopleak compound.

2.0 SCOPE

This specification describes the test method.

3.0 APPARATUS

3.1 Balance with a sensitivity of 0.1 gram

3.2 Gravity-convection oven capable of maintaining 212 ± 2 degrees Fahrenheit

3.3 Desiccator

3.4 Petri dish, approximately 100 millimeters in diameter and 15 millimeters in depth

4.0 PROCEDURE

4.1 Weigh the Petri dish to the nearest 0.1 gram.

4.2 Place approximately 20 grams of sample into the dish and weigh sample and dish to the nearest 0.1 gram.

4.3 Set the dish into the gravity-convection oven maintained at 212 ± 2 degrees Fahrenheit and heat for 48 hours.

4.4 At the end of the 48-hour period remove the dish from the oven, place in a desiccator, and allow to cool to room temperature.

4.5 Weigh the dish and its contents to the nearest 0.1 gram.

5.0 REPORT

5.1 Calculate the volatile matter as follows:

$$\% \text{ Volatile matter} = \frac{(A-B) 100}{S}$$

where

A = weight of dish and sample in grams

B = weight of dish and residue in grams

S = weight of sample in grams

REPORT THE VALUE OBTAINED AS "VOLATILE MATTER, % BY WEIGHT".

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6.0 TECHNICAL INFORMATION

For further information related to the technical content of this specification, contact:	Suppliers may purchase controlled copies of this specification by contacting:
Materials Engineering and Technology Dept. 10400 W. North Avenue Melrose Park, IL 60160 E-mail: MaterialsEngineering@Navistar.com	IHS Global Inc. 15 Inverness Way East Englewood CO 80112-5776 Phone: 1-800-854-7179 E-mail: Automotive@IHS.com Website: http://global.ihs.com

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