

NAVISTAR, INC.		
Material, Parts, and Process Specifications (MPAPS)		NUMBER: MPAPS BT-28
		Former Designation: CEMS BT-28
Compatibility and Dispersibility Test		CURRENT REV No.: 1408
		DATE: Aug 2014
WRITTEN/EDITED BY: Materials Engineering	APPROVED BY: Materials Engineering	SUPERSEDES: CEMS BT-28 - August 2009
PRINTED COPIES OF THIS DOCUMENT MUST BE VERIFIED FOR CURRENT REVISION		
<i>This specification may involve hazardous materials, equipment, and procedures. This specification does not purport to address all of the safety issues associated with its use. The user is responsible to consult appropriate safety and health practices and to determine the applicability of regulatory limits prior to use.</i>		
Change Notice: Updated to new MPAPS format; editorial changes.		

1.0 SCOPE

This method covers a test procedure for determining the compatibility of stopleak compounds with engine cooling systems and their dispersibility in water and antifreeze.

2.0 APPARATUS

- 2.1 2000 milliliter Pyrex beakers, or equivalent
- 2.2 Hot plate or laboratory burner
- 2.3 U.S. Standard sieves, 3 inch diameter, size No. 16 and No. 30
- 2.4 Thermometer, 0 - 220° Fahrenheit
- 2.5 Glass stirring rod

3.0 MATERIAL

- 3.1 Distilled water
- 3.2 Antifreeze mixture consisting of equal parts distilled water and MPAPS B-1, Coolant Concentrate, Ethylene Glycol Base.

4.0 PROCEDURE

- 4.1 Place one pellet or one container of combination liquid and solid compound into each of two 2000 milliliter beakers, one containing 1500 milliliters of distilled water and one containing 1500 milliliters of antifreeze mixture, maintained at 180°F ± 5.
- 4.2 Maintain a temperature of 180°F ± 5 without external agitation for a period of 1/2 hour.
- 4.3 At the end of this time period, stir the liquid and pour the contents of the beaker through U.S. Standard No. 16 and No. 30 sieves stacked with No. 16 on top.
- 4.4 Rinse any remaining solid matter from the beaker with one liter of distilled water passing the washing carefully through the stacked screens.

5.0 REPORT

The solid matter, percent by weight, retained on the No. 16 sieve and the No. 30 sieve.

This document is restricted and may not be sent outside Navistar, Inc. or reproduced without permission from Corporate Technical Standards. Suppliers are required to assume all patent liability. ©2014 by Navistar, Inc.

August 2014



Documents

Page 1 of 2

Document Sharing Hub

NUMBER: MPAPS BT-28	TITLE: <i>Compatibility and Dispersibility Test</i>	REVISION: 1408
--------------------------------------	--	---------------------------------

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

This document is restricted and may not be sent outside Navistar, Inc. or reproduced without permission from Corporate Technical Standards.
Suppliers are required to assume all patent liability. ©2014 by Navistar, Inc.

August 2014



Documents

Page 2 of 2
Document Sharing Hub