

NAVISTAR, INC.		
Material, Parts, and Process Specifications (MPAPS)		NUMBER: MPAPS F-6028
		<i>Former Designation: TMS-6028</i>
TITLE: Hose, Fuel and Oil Resistant, Filler Neck		CURRENT REV No.: 1709
		DATE: Sep. 2017
WRITTEN/EDITED BY: G. Svidron	APPROVED BY: R. Goluch	SUPERSEDES: Rev. 0904 – April 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>		

1.0 APPLICATION

This specification covers a fuel resistant hose suitable for Diesel fuel filler neck connections or other similar applications.

2.0 SCOPE

This specification covers the general requirements, property and performance requirements, and source approval and quality control requirements.

2.1 Restricted Chemical Substances

Effective January 1, 2007, all product supplied to the requirements of this specification must comply with the requirements of the MPAPS B-50 specification.

3.0 REFERENCE DOCUMENTS

Unless otherwise specified, the latest issue of all referenced standards shall apply. The following standards, specifications and regulations are referenced in this specification.

Quality System Standard <i>ISO 9001 or TS-16949</i>	MPAPS F-2	MPAPS P-9543
CFR Title 29, Part 1910	SAE J30	
NAVISTAR Supplier Packing and Shipping Std. D-13	MPAPS B-50	

4.0 GENERAL REQUIREMENTS

4.1 Hose Construction

The hose shall consist of a smooth bore tube of nitrile rubber, reinforced with one or more plies of textile fiber yarn, cord, or fabric, and finished with a cover of an oil and weather-resistant elastomer.

4.2 Dimensions and Tolerances

Hose shall meet the dimensions and tolerance requirements of SAE-30R6.

4.3 Property and Performance Requirements

Hose supplied to this specification shall meet all property and performance requirements of SAE30R6 Hose as per SAE J30.

5.0 QUALITY

Parts and assemblies will meet the cleanliness requirements of MPAPS F-2 Level III. All hose produced to this specification will be clean, free of dirt, grease, and contamination. All rubber debris from cutting and processing will be removed. Any internal release agents shall be flushed from the

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SEPTEMBER 2017

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inside of the hose. There shall be no fabric or flash exposed on the ID of the hose. Parts shall be free of voids and/or reinforcement splices.

5.1 Qualification

Material and processes submitted for approval to this specification shall include the following:

5.1.1 Report: A detailed and signed test report documenting testing to this specification prepared as per MPAPS P-9543. The report will include actual test data not merely test summaries.

5.1.2 Failure Modes: Test samples or photographs showing failure modes for each destructive test as necessary to fully describe those failure modes. Descriptions are adequate if the mode is easily understandable (no jargon) and not unexpected. Unexpected failure modes shall be described or pictured as completely as possible.

5.1.3 Test Procedure: The procedure used for preparing, curing and assembling materials for test.

5.1.4 Analysis: A detailed analysis of the test results including assumptions made, unexpected results and an explanation of any non-compliant results.

5.2 Submission

The material test report shall be submitted to:

Materials Engineering and Technology Dept.
10400 W. North Avenue
Melrose Park, IL 60160
E-mail: MaterialsEngineering@Navistar.com

6.0 SOURCE APPROVAL AND QUALITY CONTROL

6.1 Supplier Requirements

All suppliers to Navistar Inc. are required to be registered to ISO 9001 Quality System Requirements. Navistar will also accept TS-16949 registration as long as the supplier can also fulfill all AIAG PPAP (Production Part Approval Process) documentation and approval requirements. Suppliers must maintain their certification with an accredited registrar and must furnish copies of registration certificates to their Navistar Corporate Buyer upon request.

6.2 Approval

Parts supplied against contracts or purchase orders citing this specification shall be equivalent in all respects to those samples which were approved by the purchaser. No changes in formulation or processing practices are permitted without approval. In the event that changes in material, properties, processing practices, construction, color, or labeling of the product are required, the supplier shall notify Truck Development and Technology Center and Purchasing and Supplier Development of the proposed change(s). Test data indicating conformance to all requirements of this specification, test samples, and new or amended or updated Material Safety Data Sheet(s) (MSDS), in accordance with CFR Title 29, Part 1910 shall be submitted with the request for change.

6.3 Process Control

The supplier shall either perform and report results of tests on specific lots of parts produced using ISO 9001 or TS-16949 guidelines, or provide statistical evidence of the lot having been produced in a state of statistical control and with a process capable of providing all required properties. The part supplier and the plant metallurgist and/or the quality control manager of the using Navistar plant may determine testing and reporting requirements on specific products.

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SEPTEMBER 2017