NAVISTAR, INC.

Material, Parts, and Process Specifications (MPAPS)		NUMBER: MPAPS S-S-1.101-GS/PL	
		Former Designation: ESP-S-1.101-GS	
TITLE: O-Rings – English Series (Noun Code – 7175)		*CURRENT REV No.:* 1506	*DATE:* June 2015
WRITTEN/EDITED BY: Materials Engineering	*APPROVED BY:* Materials Engineering	*SUPERSEDES* ESP-S-1.101-GS - September 2000	

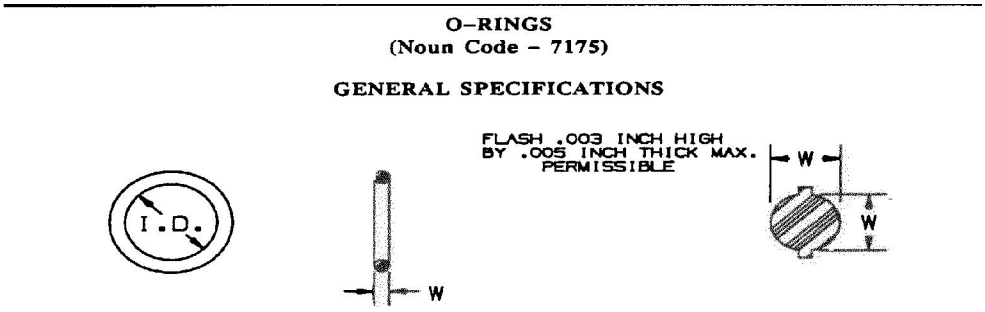
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This specification may involve hazardous materials, equipment, and procedures. This specification does not purport to address all of the safety issues associated with its use. The user is responsible to consult appropriate safety and health practices and to determine the applicability of regulatory limits prior to use.

Change Notice: **Changed to New MPAPS format; Combined GS, PP.**

1.0 GENERAL: Rings in this standard are restricted to those sizes in SAE J120a. Other sizes are considered design parts and must be specified on product engineering department drawings.

For identification of materials, qualification requirements, color codes, and all other requirements not covered in this standard, see MPAPS K-15, Part II.



2.0 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 CONTENTS:

	Page
General	1
Restricted Chemical Substances	2
Dimensions	2
Policy for Selecting Parts for New Design	2
O-Rings	3
O-Rings For Adjustable Straight Thread Fittings	6
Technical Information	6

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4.0 DIMENSIONS: Actual dimensions are shown in this document. Dimensions shown on part number pages are nominal only.

For gland dimensions, refer to Navistar Engineering Manual, EM9, Part I (Inch).

CLASSIFICATION OF COMPOUNDS

Designation				Typical Material (Rubber)	Hard-ness Shore A	Application	Resistant To
Navistar Class	Obsolete IH Class	Approx ASTM D 1418	Approx SAE J 200 ASTM D 2000				
3	-	EPDM	CA	ethylene propylene	70	Static	nonmineral oils alcohols, brake fluids or fire resistant fluids such as phosphate esters
3A	-	EPDM	CA	ethylene propylene	90	Same as Class 3 -for use with greater pressures and more severe operating conditions.	Same as Class 3
6	4	NBR	BK	nitrile	90	Same as Class 5 - for use with greater pressures and more severe operating conditions.	Same as Class 5
7	-	FPM	HK	fluoro-carbon	70	Static and Light Dynamic Duty and High Temperature	Hydraulic Fluids, Fuels and Lubricants at tem-peratures -40F (-40C) to 450F (230C)
8	-	FPM	HK	fluoro-carbon	90	Same as Class 7 - for use with greater pressures.	Same as Class 7

5.0 POLICY FOR SELECTING PARTS FOR NEW DESIGN: Approved parts are so designated to reduce variety of parts and assure maximum availability, interchangeability, and cost savings in volume buying.

For new design, parts shall be selected from "Approved" part list only.

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