

VCI RUST INHIBITOR SYSTEMS

1. SCOPE

1.1 The materials defined by this specification are vapor corrosion inhibitor (VCI) papers and polyethylene bags, treated with chemicals that emit nontoxic vapor that protects metal surfaces on service parts from humidity and acid atmosphere corrosion. Both depot stocked and direct ship service parts are covered by this standard.

1.2 This specification may involve hazardous materials, apparatus, and procedures. This specification does not address the health and safety problems, if any, associated with its use or application. It is the specification user's responsibility to follow appropriate safety or health practices, and determine the applicability of regulatory limitations prior to its use.

2. APPLICATION

This specification is released for material to be used to provide temporary corrosion protection to machined ferrous metal surfaces. For maximum protection, wrapped parts should be stored indoors.

3. RELATED STANDARDS

None

4. DESIGNATION

The Service Parts Specification Screen shall designate use of 86570295 (FNHA-2-K-005.00) for parts with machined surfaces that require corrosion protection. This specification is used on surfaces where paint protection would be detrimental to the performance of the part.

5. REQUIREMENTS

5.1 Typical properties and performance requirements are listed on Table 1.

5.2 Prior to wrapping application, all metal surfaces shall be clean from metal scale, such as oxide or rust. All metal surfaces shall also be clean from any oils, cutting fluid, or other compounds which could interfere with coverage by the protective coating.

5.3 Prior to using this product, review the material safety data sheet (MSDS) for safety requirements.

5.4 Parts can be protected in VCI treated poly bags or wrapped in VCI treated paper. Poly bags should be 4 to 6 mil thickness. VCI paper should be treated with a minimum of 1.5 g/sq. ft. of VCI chemicals. Supplier codes are listed in Table 2.

6. VCI SUPPLIER RESPONSIBILITY

6.1 VCI material suppliers shall perform the necessary tests for sample approval of initial lots. After this approval, suppliers are not required to perform specific tests, but to ascertain that their product will conform to the specification limits. This specified requirements will be used to reconcile disputed values.

6.2 All materials supplied to this specification shall be equivalent in all characteristics to the material that was originally approved. Prior to making any changes in the properties, composition, construction, color, processing, or labeling of the material originally approved under this specification, whether or not such changes affect the materials ability to meet these specifications, written notification is required to Purchasing and

					NAME	STD VCI INHIBITOR	
					 NEW HOLLAND		ENGINEERING SPECIFICATION
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Documents

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other affected Materials Engineering areas., Test data, test samples, and a new code identification are to be submitted with the request. Suppliers must have written acknowledgment and approval of Materials Engineering prior to initiating any changes.

7. ENGINEERING MATERIALS APPROVED SOURCE LIST

Approved suppliers and products are listed in Table 2.

TABLE 1	
TYPICAL PROPERTIES AND PERFORMANCE	
Appearance	Treated paper or poly bag; odorless, colorless vapors
Salt spray ASTM B117 (poly bag)	50 hours in heat sealed 4 mil poly bag or 24 hours in zip lock 4 mil poly bag - no corrosion
Flash Point	None (chemical vapor based product)

TABLE 2			
ENGINEERING APPROVED SOURCE LIST			
Supplier	Unit of Measure	Product	Appearance
Cortec	piece	VCI-126	LDPE Film
	piece	VCI-129	HDPE Film
	piece	VCI-146	Inhibitor Paper
Daubert	piece	VW35D paper	35 lb Kraft paper w/ 57 gsm VCI chemicals
	piece	CP2000 4M	4 mil poly film LDPE, transparent blue
	piece	CP2000 6M	6 mil poly film LDPE, transparent blue
Zerust	piece	LDPE Ferrous 4 mil or 6 mil	4 mil or 6 mil bag or film, transparent yellow

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				86570295