



**ESGARD**

**ESGARD PL-5.2**  
**MIL-PRF-16173E CLASS II GRADE 5**  
**(Formerly PL-5)**

<b>DESCRIPTION</b>	PL-5.2 is a hot water, low pressure steam removable thin film preservative. It contains an effective corrosion inhibitor to protect metal surfaces while in manufacturing, storage, or shipping. PL-5.2 is a listed qualified product under MIL-PRF-16173E CLASS II GRADE 5 (aka: P-21 preservatives).
<b>FIELD OF APPLICATION</b>	PL-5.2 is intended for use in place of GRADE 3 (P-3) preservatives on metal(s) such as aluminum and magnesium alloys which may be attacked by an alkaline treatment during the preservative removal stage. PL-5.2 is used where water or saline solutions must be displaced from corrodible surfaces and the corrosion prevented or arrested. It is also used for protection of interior machinery, instruments or material under cover for limited periods and protection of critical bare steel or phosphate surfaces for extended periods when packaged with satisfactory barrier materials.

**TECHNICAL DATA**

FILM PROPERTIES	Soft, amber, water displacing rust preventive film
TYPE	VOC compliant blended oil
DENSITY	7.6 lbs/gal (0.91 kg/l)
FLASH POINT	205°F (96°C) PMCC
VOLUME SOLIDS	98%
COVERAGE (Theoretical)	1600sq ft/gal at 1 mil 39.3 sq m/l at 25 microns
VOC	19 gr/l (0.16 lbs/gal)
DRY FILM	Tacky, oily film

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<b>SURFACE PREPARATION</b>	Surfaces should be cleaned free of all dirt, rust, hydrocarbons and other surface contaminants.
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<b>APPLICATION</b>	PL-5.2 is supplied ready-to-use. Agitate well before using as some separation may occur.
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SPRAY: Use conventional or airless equipment. Tip size should be such to allow for adequate atomization and single coat application. Apply to 1 mil (25 microns) wet film thickness.

*Manufacturers of Quality Protective Coatings*  
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[www.esgardcoatings.com](http://www.esgardcoatings.com)

BRUSH: Apply coating to the item via clean, quality paint brush. Take care to apply an amount sufficient to ensure a uniform wet film thickness of 1 mil (25 microns).

ROLLER: Apply coating to the item via clean, quality roller. Take care to apply an amount sufficient to ensure a uniform wet film thickness of 1 mil (25 microns).

DIP: Maintain PL-5.2 at 60°F (15°C) or higher. Viscosity increase at lower temperatures will cause excess millage build-up during application.

FILL AND DRAIN: Fill item to be protected with coating, drain out completely, ventilate till gas free and seal.

<b>THINNING</b>	DO NOT THIN OR DILUTE. APPLY AS SUPPLIED.
<b>REMOVAL</b>	Esgard Thinner 102, mineral spirits or naphtha. Also remove via hot water or steam.
<b>CLEAN UP</b>	For equipment use, Esgard Thinner 102, mineral spirits or naphtha. For personal cleanup, use soap and water.
<b>POT LIFE</b>	Not applicable
<b>SHELF LIFE</b>	24 months
<b>CAUTION</b>	<b>FOR INDUSTRIAL USE ONLY!</b> Although PL-5.2 is not hazardous, good safety practices and common sense should be used. Safe application practices should include the use of respirators, eye protection, adequate lighting and ventilation. PL-5.2 will not sustain combustion but caution should be used near flames.
<b>SAFETY</b>	Refer to Safety Data Sheet supplied with each order.
<b>FIRST AID</b>	Refer to Safety Data Sheet supplied with each order.

The data contained herein are typical product properties and do not constitute product specifications

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