

D-5026NS/ZC-026 Instruction Manual

D-5026NS/ZC-026 Product Information and Benefits:

- 1.) **D-5026NS** and **ZC-026** are unique products on the MIL-PRF-81309 military specification as they are on the QPL for Type II and Type III.
 - *Type II usage involves the daily corrosion duties of the maintainer for general corrosion prevention to latches, hinges, hardware, etc on all types of aircraft. It can be used for short term tooling and equipment storage to prevent flash corrosion. **D-5026NS** and **ZC-026** are also used as an airframe inner moldline corrosion inhibitor for general aviation aircraft.
 - *Type III usage is primarily for avionics applications for connectors, circuit cards, motherboards, ect.
- 2.) **D-5026NS/ZC-026** contains no ozone depleting chemicals and prevents corrosion, provides superior protection to avionic connectors and components, and has lubricating properties to prevent fretting corrosion.
- 3.) **D-5026NS/ZC-026** protects electrical connectors from corroding and provides protection for cables, surfaces, and interior and exterior aircraft substrates.
- 4.) **D-5026NS/ZC-026** is free of heavy metals and chromates, has a low toxicity level, and contains a thixotropic property to prevent it from disrupting contact between connectors.
- 5.) **D-5026NS/ZC-026** has a low toxicity level, is free of chromates and heavy metals, and contains a film to prevent substrate oxidation.
- 6.) **D-5026NS/ZC-026** provides protection in the harshest environments and can withstand temperatures up to 105°C (221°F) for only 500 hours cumulative.
- 7.) **D-5026NS/ZC-026** withstands temperatures as low as -55°C (-67°F) and as high as 85°C (185°F) continuously and provides corrosion protection in the harshest environments.
- 8.) One aerosol can of **D-5026NS** covers approximately 140 ft² (13m²)
- 9.) When applied properly, **D-5026NS/ZC-026** provides a medium to heavy duty water displacing, thin film.

Safety Steps and Procedures To Follow For Preparing Area Prior To Applying D-5026NS/ZC-026:

- 1.) Always refer to the safety data sheet (SDS) prior to applying **D-5026NS/ZC-026**.
- 2.) Always wear gloves and protective eyewear to prevent **D-5026NS/ZC-026** from making contact with the skin and eyes.
- 3.) Make sure there is proper airflow in the area where **D-5026NS/ZC-026** will be applied and that you wear a half face mask with organic vapor cartridges if there is low ambient air movement or when working in confined spaces with the atomized version of **D-5026NS/ZC-026**.
- 4.) Make sure there are no sparks, open flames, hot surfaces, or other heat and fire ignition sources in the area where **D-5026NS/ZC-026** will be applied.
- 5.) Ensure that any primers, sealants, and other coatings are cured before applying **D-5026NS/ZC-026**.
- 6.) Vacuum and wipe surfaces so that moisture and other foreign material that is on the surface can be removed.
- 7.) Type II surfaces should be fairly clean and free of dirt and other contaminants and should be cleaned using **Sur-Prep® 3160**, **Sur-Prep® 3167**, and **D-5640NS/ZC-640**.



Safety Steps and Procedures To Follow For Preparing Area Prior To Applying D-5026NS/ZC-026 (Continued From Page 1):

8.) It is imperative that Type III surfaces are clean and free of dirt and other contaminants. Clean these surfaces with **Sur-Prep® 123**, **Sur-Prep® 608**, **Sur-Prep® 5673**, **Sur-Prep® 5677**, and **D-5600NS/ZC-600**.



9.) Mask areas that will not be coated with **D-5026NS/ZC-026**, such as electrical connectors, pins and joints in sliding surface contact, control cables, pulley and quadrant cable grooves, bushing and bearings for all types, which includes lined Teflon, silicone or rubber seals, high temperature areas that are above 200°F (93°C), wire bundles, lubricated surfaces (i.e hydraulic actuator pistons), drain valves and oxygen system components (i.e. bottles, pressure metering and indicating equipment and connections, ect)

Note: **Sur-Prep® 608** and **Sur-Prep® 5673** will no longer be produced in January 2025 as it contains 3M HFE material which 3M has decided to stop manufacturing by 2025. Customers should consider purchasing **Sur-Prep® 608** and **Sur-Prep® 5673** while they are still available or use them if they have those products in stock and they are not expired. **Sur-Prep® 123** has already been qualified as a replacement for oxygen system cleaning and general-purpose cleaning and can be purchased in bulk and aerosol formats.

Methods For Applying D-5026NS/ZC-026:

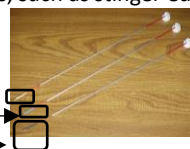
1.) **D-5026NS** comes in aerosol packaging and can be applied via the following methods:

- * Spraying
- * **Formit®** Extension Wands-For use with all **Zip-Chem®** aerosols to reach difficult to access areas, such as stinger edge

* **Formit®** 360° Spray (White Tube) Wand

* **Formit®** Fan Spray Spray (Blue Tube) Wand

* **Formit®** 180° Spray (Black Tube) Wand



* **Formit®** 360° Spray Application Video



* **Formit®** Fan Spray Application Video



* **Formit®** 180° Spray Application Video



2.) **ZC-026** comes in bulk containers and can be applied using airless, air assist, HVLP, and any other spray equipment used to apply paint and other coatings.

3.) The application process for Type II involves directing **D-5026NS/ZC-026** into the required areas with little to no overapplication of the material involved. If **D-5026NS/ZC-026** is overapplied, then wipe the excess material with a dry rag.

4.) The application process for Type III involves applying **D-5026NS/ZC-026** to avionic connectors. Apply **D-5026NS/ZC-026** to the interior of the connector and allow the excess material to run out of it. Assemble the connector after the excess **D-5026NS/ZC-026** is no longer present there.



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Areas Where D-5026NS/ZC-026 Should Be Applied:

D-5026NS/ZC-026 should be applied on:

- *Highly Critical Metal Surfaces
- *Avionic Components and Connectors
- *All Interior and Exterior Aircraft Surfaces
- *Cables
- *Electrical Connectors
- *Most paints, plastic, and insulation
- *Other Components

Removing D-5026NS/ZC-026:

1.) Type II and III **D-5026NS/ZC-026** can be removed with **Sur-Prep® 3160**, **Sur-Prep® 3167**, and **D-5640NS/ZC-640**.

2.) Type III **D-5026NS/ZC-026** can be removed with a solvent that is approved to an avionics specification such as MIL-PRF-29608 or various OEM and AMS specifications.

D-5026NS/ZC-026 Product Pictures and Zip-Chem® Product Packaging Part Numbers:

D-5026NS/ZC-026

- *Case of 12 of 16 fl oz (473 mL) Aerosols (**D-5026NS**)-**007669**
- *Case of 4 each Gallon (4 each of 3.8 Liter) Cans (**ZC-026**)-**009415**
- *5 Gallon (18.9 Liter) Pails (**ZC-026**)-**002095**
- *55 Gallon (208 Liter) Drum (**ZC-026**)-**002096**
- *Specialized forms of packaging available upon request

D-5640NS/ZC-640

- *Case of 12 of 16 fl oz (473 mL) Aerosols-**002070**
- *Case of 4 each Gallon (4 each of 3.8 Liter) Cans-**009430**
- *5 Gallon (18.9 Liter) Pails-**002155**
- *55 Gallon (208 Liter) Drum-**108181**
- *Specialized forms of packaging available upon request

D-5600NS/ZC-600

- *Case of 12 of 16 fl oz (473 mL) Aerosols (**D-5600NS**)-**002063**
- *Case of 4 each Gallon (4 each of 3.8 Liter) Cans (**ZC-600**)-**009428**
- *5 Gallon (18.9 Liter) Pail (**ZC-600**)-**009357**
- *55 Gallon (208 Liter) Drum (**ZC-600**)-**008565**
- *Special packaging upon request

Sur-Prep® 5673

- *Case of 12 of 16 fl oz (473 mL) Aerosols-**008597**
- *Case of 4 each Gallon (4 each of 3.8 Liter) Cans-**009384**
- *5 Gallon (18.9 Liter) Pail-**009385**
- *55 Gallon (208 Liter) Drum-**009386**
- *Special packaging upon request

Sur-Prep® 608

- *Case of 12 of 16 fl oz (473 mL) Aerosols-**008593**
- *Special packaging upon request

Protective Eyewear Spray Equipment Facemask Rag

Sur-Prep® 3160

- *Case of 12 of 16 fl oz (473 mL) Aerosols-**010938**
- *Case of 4 each Gallon (4 each of 3.8 Liter) Cans-**008578**
- *5 Gallon (18.9 Liter) Pails-**008579**
- *55 Gallon (208 Liter) Drum-**008580**
- *Case of 6 Canisters of Towelettes-**100026**
- *Case of 100 Individual Towelettes-**011844**
- *Specialized packaging forms for customers

Sur-Prep® 3167

- *Case of 12 of 16 fl oz (473 mL) Aerosols-**103765**
- *Case of 4 each Gallon (4 each of 3.8 Liter) Cans-**103762**
- *5 Gallon (18.9 Liter) Pails-**103763**
- *55 Gallon (208 Liter) Drum-**103764**
- *Specialized forms of packaging available upon request

Sur-Prep® 123

- *Case of 12 of 16 fl oz (473 mL) Aerosols-**102815**
- *10 Pound (4536 gram) Cylinder-**102933**
- *50 Pound (22680 gram) Cylinder-**102934**
- *Special packaging upon request

Sur-Prep® 5677

- *Case of 12 of 16 fl oz (473 mL) Aerosols-**100474**
- *Case of 4 each Gallon (4 each of 3.8 Liter) Cans-**100478**
- *5 Gallon (18.9 Liter) Pail-**100481**
- *55 Gallon (208 Liter) Drum-**100482**
- *Special packaging upon request

250 Masking Tape Tan (Can Be Certified TO SAE-AMS3721)

Solvents Tin Foil Gloves Organic Vapor Cartridges



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D-5026NS/ZC-026 Product Pictures and Zip-Chem® Product Packaging Part Numbers (Continued From Page 3):

Formit® Wands (12 Assemblies Per Package)

*Formit®-18-Fan-006224

*Formit®-18-180-006226

*Formit®-18-360-006227

*Formit®-18-STD-FOG-008352

*Formit®-18-90-FOG-008353

*Formit®-29-360-101321

*Formit®-36-360-009131

*Formit®-48-360 with metal sleeve-009132

*Formit®-48-360 without metal sleeve-100424

*Formit®-48-Fan-008460

*Formit® Sample Pack (3 each of Formit®-18-Fan, Formit®-18-180, Formit®-18-360, Formit®-18-STD-FOG-100107)



← * 16 Fluid Ounce (473 mL) Aerosol



← * 1 Gallon (3.8 Liter) Cans

Sur-Prep® 3160 NSN: 6850-01-633-9843 (16 fl oz (473 mL) Aerosol)

Formit® NSN's: 4730-01-612-9914, NSN: 4730-01-661-8773 (Formit®-18-Fan); 6850-01-492-2942 (Formit®-18-360);
4730-01-632-0156 (Formit®-18-STD-FOG); 1560-01-658-8943 (with metal sleeve),
4730-01-659-5461 (without metal sleeve) (Formit®-48-360); 4730-01-632-0157 (Formit®-48-Fan)

D-5600NS NSN: 6850-01-628-2147 (16 fl oz (473 mL) Aerosol)

D-5640NS NSN: 8030-01-597-6958 (16 fl oz (473 mL) Aerosol)

Sur-Prep® 123 NSN's: 6830-01-678-3176 (10 lb (4536 gram) Bulk Cylinder)
6850-01-671-8497 (Aerosol)

Sur-Prep® 608 NSN: 6850-01-612-6962 (16 fl oz (473 mL) Aerosol)

Sur-Prep® 5673 NSN: 7510-00-616-9588 (16 fl oz (473 mL) Aerosol)

Sur-Prep® 5677 NSN: 6850-01-684-6911 (16 fl oz (473 mL) Aerosol)

For application questions regarding D-5026NS/ZC-026, contact Zip-Chem® Aviation Products at (1) 408 782 2335 or zipchem@addevmaterials.com.



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