

Safety Steps and Procedures To Follow Prior To Applying The Sur-Prep® PenEtch™ HFN

Refer to the safety data sheet (SDS) and technical data sheet (TDS) prior to applying the **Sur-Prep® PenEtch™ HFN** if you have any questions about the product.

Always wear gloves, protective clothing, and protective eyewear to prevent the **Sur-Prep® PenEtch™ HFN** from contacting the skin and eyes.

Make sure there is proper airflow and ventilation in the area where the **Sur-Prep® PenEtch™ HFN** will be applied and wear respirating devices if the area where the **Sur-Prep® PenEtch™ HFN** will be applied in has insufficient ventilation.

Make sure there are no sparks, open flames, or other combustible sources in the area where the **Sur-Prep® PenEtch™ HFN** will be applied.

Sur-Prep® PenEtch™ HFN Features and Benefits:

The **Sur-Prep® PenEtch™ HFN** is a swab etchant that allows a controlled application of the acid etchant for inspection of titanium alloys and fan blades and is easy to mix and use.

The **Sur-Prep® PenEtch™ HFN** is shelf stable where it can be stored at the point of use, can be stored long term until it is ready to be used, and begins its shelf life when its components are mixed to maximize its effectiveness and time for usage.

The **Sur-Prep® PenEtch™ HFN** has a pot life of **30 days** from the day it was mixed and has minimal exposure to chemicals.

Areas Where The Sur-Prep® PenEtch™ HFN Can Be Applied:

The **Sur-Prep® PenEtch™ HFN** can be applied on titanium and titanium alloys, such as fan blades as shown below.



Procedures For Applying The Sur-Prep® PenEtch™ HFN:

Follow PPE and protection guidelines called out in **Boeing Task 70-43-24-100-801-G00 Class B** specification for applying the **Sur-Prep® PenEtch™ HFN** .

Follow these directions below for using the **Sur-Prep® PenEtch™ HFN Kit**.

- 1.) Make sure that primary plastic pen structure is secured
- 2.) Remove black screw top lid from the plastic pen and discard it
- 3.) Remove the nitric solution black screw top from the glass bottle
- 4.) Pour nitric acid solution from the glass bottle into the plastic primary pen structure as shown below in the video regarding how to mix these materials

Pouring the Nitric Acid into the Swab Etchant bottle.



- 5.) Attach Dauber screw top with the plastic snap to the plastic primary pen structure on cap and secure it
- 6.) Agitate the contents of the **Sur-Prep® PenEtch™ HFN** in a controlled manner for **1 minute**
- 7.) Properly discard shipping caps and glass nitric acid bottle
- 8.) Follow **Sub Task 70-43-24-110-003-G00** for proper etching procedures.

Sur-Prep® PenEtch™ HFN Instruction Manual

Sur-Prep® PenEtch™ HFN Packaging Pictures and Other Materials To Purchase:

Sur-Prep® PenEtch™ HFN
*Kit With A Case of Pens-103885

Gloves | Protective Eyewear | Wiping Devices | Respirating Equipment | Protective Clothing
Ventilation Equipment

Sur-Prep® PenEtch™ HFN
Nitric Acid Bottle



Sur-Prep® PenEtch™ HFN Swab Etchant Bottle

For application questions regarding the Sur-Prep® PenEtch™ HFN, contact Zip-Chem® Aviation Products at (1) 408 782 2335 or zipchem@addevmaterials.com.