

Firescoff Step by Step



Gently heat jewelry to around 250°F (120°C).

Tip: Gauge the temperature by placing a drop of water on the metal surface. Apply heat until the water boils off completely, then *Firescoff*.



Spray *Firescoff* so that a fine mist covers the entire piece. When applied correctly, *Firescoff* will form a uniform white powder coating instantly on contact.

Tip: For faster solder flow, apply more *Firescoff*.



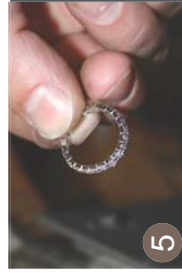
Gently reheat coated jewelry. Apply more *Firescoff* if a reflection from the metal or any gemstones is visible.

Tip: *Firescoff* ceramic flux is also a firecoat. Protect metal and gemstones better than boric acid & alcohol.



Because *Firescoff* is also a flux, no other paste or liquid flux is required.

Tip: When using paste solder, apply paste solder first, then *Firescoff*.



Remove *Firescoff* coating after soldering easily using just warm water, or ultrasonic bath. No acid pickle is required.

Tip: *Firescoff* is ideal for protecting the patina and color of rose gold during manufacturing and repairs!

NOTE: At low temperature, ceramic crystals may form at the bottom in the bottle. This may temporarily impact pump / spray performance. To return crystals back into solution, place the entire bottle in hot water or heated ultrasonic bath for 5-10 minutes.

Manufactured by:



Visit www.Nventa.com for more tips & techniques or call 1-800-535-4980

8 out of 10 Jewelers prefer *Firescoff* Ceramic Flux for its award winning Performance, and Safety!

Firescoff[®]

Award Winning
Ceramic Flux Spray

The Firescoff Advantage

- Replaces Flux, Firecoat, and Pickle
- Industry leading firescale protection
- Flawless void-free welds
- Consistent, predictable solder flow
- Multiple soldering w/ single application
- 60% reduction in prep time
- Maintains original metal color & patina
- Fluoride Free (safe for ruby & sapphires)
- Non Toxic, No Outgassing (Refer to MSDS)
- All-in-one Convenience
- Easy warm water clean-up
- MJSA Award Winning Results!
- Environmental Green Standard
- Toll Free 1-800 Technical Support



- Award Winning Flux
- Award Winning Firescale Preventer
- Award Winning Heat Shield
- Award Winning Results



MULTI-INNOVATION, BOUNDLESS UTMORPH

MATERIAL SAFETY DATA SHEET

MSDS #: 896223-10008-1 17

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Firescoff® MSDS (Continued)

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SECTION I – CHEMICAL PRODUCT

Identity: Firescoff® Ceramic Flux, Firecoat/Firescale Preventer, Heat Shield

Hazard Rating: Health: 1
Flammability: 0
Reactivity: 0
4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=Minimal

National Emergency Poison Control Hotline: 1-800-222-1222

Emergency Telephone Number: 1-800-535-4980
Or call Local Poison Control Center or your physician

SECTION II – COMPOSITION AND INGREDIENTS

Ingredients/Chemical Name (May contain one or more of the following: Water, antioxidants), ceramic matrix compound(s), non-metallic oxides, dissolution dispersing aid(s), cleaning agent(s), stabilizing agent(s)

Potentially Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200(g):

CAS	CONC	NIOSH
7664-38-2	<2 %	1 mg/m ³ TWA

SECTION III – HAZARDS IDENTIFICATION

Health Hazards (Acute and Chronic):

Inhalation: Aerosol mist may cause slight irritation to upper respiratory tract.
Ingestion: May cause gastrointestinal irritation and dizziness/imbalance.
Eye Contact: May cause eye irritation.
Skin: May cause minor skin irritation.

Signs and Symptoms of Exposure:

Inhalation: May result in nausea, headache, and/or respiratory tract irritation.
Ingestion: May result in nausea, vomiting, abdominal pain, and/or diarrhea.
Eye Contact: May cause stinging, burning, tearing, itching, swelling, and/or redness.
Skin: May cause minor itching, stinging, and/or redness.

SECTION IV – FIRST AID INFORMATION

Emergency and First Aid Procedures:

Inhalation: Remove person to fresh air. Seek medical attention if symptoms persist.
Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting. Drink 2 – 4 glasses of milk or water. Seek medical attention. Flush thoroughly with water for 15 minutes. Forcefully hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention.
Eye Contact: Rinse skin with water. If spilled on clothing, change clothes. Seek medical attention if symptoms persist.

Add a Little Firescoff® Hold the Pickle



Introducing *Firescoff* - A revolutionary spray ceramic coating that prevents scale, acts as a flux, and comes off with just warm water. Lose the pickle, and enjoy.



- 1 Start by gently heating jewelry to ~250°F (~120°C)**
Tip: Gauge the temperature by placing a drop of water on the metal surface. Apply heat until the water boils off, then apply *Firescoff*.
- 2 Spray *Firescoff* so that a fine mist evenly coats the entire piece. With proper heat, the *Firescoff* coating will instantly turn white. For best results, apply *Firescoff* holding the spray bottle ~8 inches from jewelry.**
- 3 Gently reheat the coated jewelry. Apply additional *Firescoff* where a reflection from the metal or any gemstones is still visible.**
Tip: For faster solder flow, apply more *Firescoff*.
- 4 Because *Firescoff* is also a flux, not other paste flux is necessary.**
Tip: When using paste solder, apply paste solder first then *Firescoff*.
- 5 Remove *Firescoff* without the need of a pickle solution by using warm water or ultrasonic bath.**

Questions? Call our tech line at 1-800-535-4980.

Nventa Incorporated, Scottsdale Arizona, www.Firescoff.com

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SECTION V – FIRE FIGHTING INFORMATION

Extinguishing Media: Substance is noncombustible. Use any fire-fighting agent appropriate for surrounding material.
Flash Point (Method Used): N/A
Explosive Limits: LEL: N/A UEL: N/A
Special Fire Fighting Procedures: None
Stability: Stable
Conditions to Avoid: None known
Incompatibility: Strong oxidizers
Hazardous Polymerization: Will not occur
Conditions to Avoid: None known

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: None
Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL REGULATIONS. Solutions may be allowed to be flushed down sewer. First check with your local water treatment plant. Please do not landfill.
Steps To Be Taken in Case Material is Released or Spilled: Sorbents may be used. Read "Disposal Considerations" below for further information.

SECTION VII – HANDLING AND STORAGE

Precautions To Be Taken in Handling and Storage: Avoid low temperature.
Storage Temperature: Recommended 72° to 120° F (25° to 49° C)
Shelf Life: 2 years
Other Precautions: Store in closed container.

SECTION VIII – EXPOSURE CONTROLS, PERSONAL PROTECTION

Respiratory Protection (Specify Type): None required with normal use.
Ventilation: Local Exhaust: None required with normal use.
Mechanical (General): Normal/general dilution ventilation is acceptable.
Eye Protection: None required with normal use.
Industrial Setting: For splash and liquid vapor protection, use chemical goggles. Eye wash fountain is desirable.
Protective Gloves: None required with normal use.
Industrial Setting: Protective gloves (nitrile, rubber, neoprene) should be used for prolonged direct contact
Other Protective Equipment: None required with normal use. Industrial Setting: Avoid confined space entry without supplemental breathing air.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point °F: N/A
Appearance and Odor: Clear liquid / white ceramic powder coating.
Vapor Pressure (mm Hg): N/A
Vapor Density (Air=1): N/A
Evaporation Rate (nBuOAc=1): N/K
Specific Gravity (H₂O = 1): ca. 1.1
Freezing Point: N/A
pH (100% solution): > 7 (basic)
Solubility in Water: Completely

SECTION X – STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions. Rapid crystallization with heating. Absorbs oxygen and carbon dioxide from the air.
Possible Hazardous Reactions/Conditions: In very rare cases, may react with strong oxidizers, metal hydrides, or alkali metals generating hydrogen gas, which could create an explosion hazard.

Materials / Conditions to Avoid: Strong oxidizers

Hazardous Decomposition Products: May include inorganic metal and non-metal oxides.

SECTION XI – TOXICOLOGICAL INFORMATION

Water based ceramic fluxes have a low order of toxicity.

SECTION XII – ECOLOGICAL INFORMATION

In large quantity at high concentration, soluble ceramic compounds may cause damage to trees or vegetation by root absorption.

SECTION XIII – DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION XIV – TRANSPORT INFORMATION

Firescoff® contains no alcohol and is non-hazardous under DOT. This material approved for shipment via commercial passenger air-freight.

SECTION XV – ADDITIONAL REGULATORY INFORMATION

All components are listed on the US TSCA Inventory. No components are affected by Significant New Use Rules (SNURs) under TSCA §5. No components of Firescoff® are subject to California Proposition 65 labeling. This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

SECTION XVI – ECOLOGICAL INFORMATION

* N/A – Not Applicable
* N/K – Not Known

The submission of this MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered by Nventa Incorporated to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific material designated herein, and does not relate to the use in combination with any other material or any other process. Nventa Incorporated assumed no responsibility for injury to the recipient or third persons for any damage to any property resulting from misuse of the controlled product.

CAUTION: Brazing may produce fumes and gases hazardous to health. Avoid breathing these fumes and gases. Use adequate ventilation. See ANSI Z49.1, Safety in Welding and Cutting published by the American Welding Society, 550 N.W. 42nd Ave., Miami, FL 33126

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