

# Heat Freeze Heat Paste Instructions

---



## Application

Apply Heat Freeze directly to areas that need to be protected from unwanted heat transfer.

Use a thicker layer of Heat Freeze when using high temperatures or prolonged application of heat.

Apply enough Heat Freeze to fully cover and protect the part. Insufficient coverage can allow unwanted heat transfer or damage.

## Surface Protection

If moisture would be harmful to the protected area, first apply plastic wrap, then a layer of Heat Freeze.

## Rehydration

Always keep Heat Freeze moist during use. If it dries out, add a small amount of water to rehydrate. This ensures consistent performance and makes the product reusable.

## Product Cleanliness

Keep the Heat Freeze free from contaminants such as dirt, metal filings, or grease. Clean material extends product life and ensures optimal heat protection.

## Cooling

Allow the metal to cool completely before removing Heat Freeze. Removing it too early may affect weld integrity or cause burns.

## Proper Distance

Leave a small gap between the Heat Freeze and the weld zone. Because Heat Freeze absorbs heat efficiently, placing it too close can draw heat away from the repair area and interfere with bonding.

## Protect Your Hands

Always wear gloves when applying Heat Freeze or wash hands thoroughly afterward. While non-toxic, it's best to minimize prolonged skin contact.

## Reuse and Store Properly

Apply as much reusable Heat Freeze as needed, then return the remaining material to the jar. Keep the container sealed and store in a cool, dry place for best longevity.

## **SAFETY GUIDELINES**

### **Respiratory Protection**

Use an air purifying dust respirator when welding or brazing in a confined space, or when local exhaust or ventilation is not sufficient to keep exposure values within safe limits.

### **Hands Protection**

Wear appropriate gloves to prevent skin contact.

#### **EN 12477: Protection gloves for welders**

Type B gloves are recommended when high dexterity is required as for TIG welding, while type A gloves are recommended for other welding processes. The contact temp (°C) is 100 and the threshold time (seconds) >15.

### **Eyes Protection**

Welder's helmet or face shield with color absorbing lenses. Shield and filter to provide protection from harmful UV radiation, infra red and molten metal approved to standard EN379. Filter shade to be a minimum of shade 9.

### **Skin Protection**

Heat-resistant protective clothing. Wear safety boots, apron, arm and shoulder protection. Keep protective clothing clean and dry. Clothing should be selected to suit the level, duration and purpose of the welding activity.

### **Ventilation**

Work in ventilated spaces to disperse flux fumes. Avoid confined areas without extraction.

### **Fire Safety**

Keep a fire extinguisher nearby when working around flammable surroundings.

### **Liability**

Follow AWS-compliant brazing safety standards.

Muggy Weld LLC shall not be liable for any loss, injury, claim, liability, or damage of any kind resulting in any way from (a) your use of Muggy Weld products, (b) any errors in or omissions from these instructions.

BY OFFERING FOR SALE WELDING ALLOYS THROUGH ITS WEBSITE, MUGGY WELD LLC DOES NOT REPRESENT OR WARRANT THAT WELDING IS WITHOUT RISK, AND IS NOT LIABLE FOR DAMAGES OR LOSSES THAT MAY RESULT FROM PARTICIPATION IN SUCH ACTIVITIES.

## **FIRST AID MEASURES**

### **Inhalation**

Remove to fresh air immediately or administer oxygen. Get medical attention immediately.

### **Skin**

Flush skin with large amounts of water and soap. If irritation develops and persists, get medical attention.

### **Eyes**

Flush eyes with water for at least 15 minutes. Get medical attention.

### **Ingestion**

Obtain medical attention immediately if ingested. Rinse mouth.

### **Electric Shock**

Disconnect and turn off the power. Use a nonconductive material to pull victim away from contact with live parts or wires. Immediately contact a physician.

## **FIREFIGHTING MEASURES**

### **Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Welding arcs and sparks can ignite combustible and flammable materials. Use

the extinguishing media recommended for the burning material and fire situation.

### **Unsuitable Extinguishing Media**

Do not use water on molten metal. Large fires may be flooded with water from a distance.

### **Specific Hazards Arising From Chemical**

Cadmium oxides, tin oxides, carbon oxides, zinc oxides.

### **Protective Equipment**

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

## **ACCIDENTAL RELEASE MEASURES**

### **Cleaning Measures**

Collect solid residues into a suitable container. Liquids or pastes should be scooped and placed into containers. Wear proper protective equipment when handling. Do not discard as refuse.

## **HANDLING AND STORAGE**

### **Precautions for Safe Handling**

Handle with care to avoid stings or cuts. Wear gloves when handling welding consumables. Avoid exposure to dust. Do not ingest. Some individuals can develop an allergic reaction to certain materials. Retain all warning and identity labels.

### **Conditions for Safe Storage**

Store in dry place in closed packages. Keep separate from chemical substances like acids and strong bases, which could cause chemical reactions.

## **EXPOSURE CONTROLS/ PERSONAL PROTECTION**

### **Engineering Controls**

Avoid exposure to welding fumes, spatter, electric shock, heated materials and dust. Ensure sufficient ventilation, local exhaust, or both, to keep welding fumes and gases from breathing zone and general area. Keep work place and condition of protective clothing clean and dry. Train welders to avoid contact with live electrical parts and insulate conductive parts. Check condition of protective clothing and equipment on a regular basis.

### **Exposure Limits**

Use industrial hygiene equipment to ensure that exposure does not exceed applicable national exposure limits. Unless noted, all values are for 8 hour time weighted average.

### **Biological limits**

No available data