

## TECHNICAL DATA SHEET

# S-Weld Passgel-NP

**Code 1136**

**Conforms to ASTM A380 and ASTM A967 Passivation Treatments**

### DESCRIPTION

Callington S-Weld Passgel-NP is a powerful fluorine-free oxidizing passivator gel for cleaning and passivating aluminum and aluminum alloys. This multi-purpose, gel-formatted passivator significantly reduces the amount of disassembly required for both passivation and cleaning. It removes free iron and dissolves any surface contamination. S-Weld PassGel-NP can be used following pickling, grinding or mechanical polishing to ensure a passive surface is obtained prior to installation or commissioning of the final product.

### FEATURES & BENEFITS

- Developed specifically for the cleaning and passivation of aluminum and aluminum alloy.
- Suitable for use in stripping anodized layers from aluminum.
- Gel consistency for ease of application on vertical and horizontal surfaces, and spot passivation.
- Designed for in-field application reducing the need for equipment disassembly prior to the passivation process.
- Fluorine-free allowing use in applications where fluorine's are prohibited.
- Removes free iron and dissolves any residual surface contamination.
- Improved quality of fabricated product.
- Conforms to:
  - ASTM A380 and ASTM A967 Passivation Treatments
  - Collins Aerospace RPS 15.00 – SURFACE PREPARATION OF HEAT AND CORROSION RESISTANCE ALLOYS
  - Collins Aerospace RPS 15.52 – CLEANING OF ALUMINIUM



### DIRECTION FOR USE

1. Surface should be pre-cleaned to remove oils and greases before applying the passivating agent. Use a suitable alkaline degreaser (contact your Callington representative for suitable product). Any contamination will shorten the life of the passivating gel.
2. Stir the gel to ensure a smooth consistency and apply S-Weld PassGel-NP using the acid resistant brush provided.
3. Allow 10-20 minutes of dwelling time on stainless steel. Test first with the product to establish minimum dwell time.
4. Rinse thoroughly with clean potable water, dry surfaces to prevent water staining (smut). If a neutralizing agent is also used this must be followed by rinsing again with clean potable water and surfaces should be dried to prevent water staining.

#### Callington Inc

1170 Tree Swallow Drive, Suite 402 Winter Springs, FL 32708  
 E: orders@callington.com  
 W: callington.us

#### Callington Canada ULC

1300-1969 Upper Water Street  
 Purdy's Wharf Tower II, Halifax, NS, Canada B3J 3R7  
 E: americas@callington.com  
 W: callington.ca

## TECHNICAL DATA SHEET

### Note:

- Wear PVC gloves, goggles, overalls, and safety boots. Wear a respirator if working in a confined or poorly ventilated area.
- Avoid spillages and do not allow the gel to come in contact with the body or eyes. Avoid breathing in the vapors.
- If skin contact occurs, immediately flush body and/or clothes with water. Remove all contaminated clothing.
- Replace the lid on the container tightly after use, and store upright in a cool dry area away from direct sunlight. Do not store or use below 5°C.

### ORDERING INFORMATION

Code	Product Description	Packaging	Units per Case
1136/32/AMS	S-Weld PassGel-NP	1 Quart	4

S-Weld PassGel-NP is presented in a 1 Quart security cap plastic container, and each bottle comes with an acid resistant application brush.

### PHYSICAL PROPERTIES

- pH: <1.0
- Appearance: Thick white translucent gel
- Specific Gravity: 1.40
- Water Solubility: Miscible
- Shelf Life: 24 months\* - if stored as per above conditions.

### DANGER

Causes severe skin burns and eye damage. Toxic if inhaled. May cause respiratory irritation. Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.

### PRECAUTIONS

Do not breathe mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing, eye protection and face protection. Wash all exposed external body areas thoroughly after handling. Do not use near open flames or cutting torches, since hazardous flammable gas can be generated.

### SAFETY PRECAUTIONS

**Caution:** This product contains Nitric Acid (7697-37-2) & Phosphoric Acid (7664-38-2) and is corrosive and poisonous. Wear appropriate chemical protective clothing, eye protection and breathing apparatus as necessary. Keep lid tightly closed when not in use, and out of reach of children or unauthorized users. If using in a poorly ventilated area, use a respirator.

### FIRST AID

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If more than 15 minutes from Doctor, INDUCE VOMITING (if conscious). IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

#### Callington Inc

1170 Tree Swallow Drive, Suite 402 Winter Springs, FL 32708  
E: orders@callington.com  
W: callington.us

#### Callington Canada ULC

1300-1969 Upper Water Street  
Purdy's Wharf Tower II, Halifax, NS, Canada B3J 3R7  
E: americas@callington.com  
W: callington.ca

## TECHNICAL DATA SHEET

rinsing. Immediately call a POISON CENTER/doctor/physician/first aider. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

### **STORAGE & DISPOSAL**

Store in a well-ventilated place. Keep container tightly closed. Store locked up and in corrosive resistant container with a resistant inner liner. Dispose of contents/container to authorized hazardous or special waste collection point in accordance with any local regulation.

**WARRANTY** – All statements, information and data presented herein are believed to be accurate and reliable but are not to be taken as a guarantee, expressed or implied, for which seller assumes legal responsibility and they are offered solely for your consideration, investigation, and verification. Statements or suggestions concerning possible use of this product are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe on any patent. Created 04 June 2024 Date Printed 24/07/2024 12:42 PM

### **Callington Inc**

1170 Tree Swallow Drive, Suite 402 Winter Springs, FL 32708  
E: [orders@callington.com](mailto:orders@callington.com)  
W: [callington.us](http://callington.us)

### **Callington Canada ULC**

1300-1969 Upper Water Street  
Purdy's Wharf Tower II, Halifax, NS, Canada B3J 3R7  
E: [americas@callington.com](mailto:americas@callington.com)  
W: [callington.ca](http://callington.ca)