

LOCTITE[®] SF 7900 Ceramic Shield

Known as Loctite Ceramishield
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PRODUCT DESCRIPTION

LOCTITE[®] SF 7900 Ceramic Shield provides the following product characteristics:

Technology	Surface treatment
Chemical Type	Boron Nitride
Appearance	Translucent liquid
Odor	Solvent
Dispense Method	Spray
Propellant	Propane/Butane
Cure	Solvent evaporation
Application	Protective Coating

LOCTITE[®] SF 7900 Ceramic Shield is a ceramic dry film protective coating for MIG/MAG welding processes. This product protects contact tips and welding nozzles by preventing adhesion of welding spatter. This results in significant longer processing times without cleaning of the welding equipment and reduction of downtimes. The repellent film of LOCTITE[®] SF 7900 Ceramic Shield also protects against adhering spatter on jigs, fixtures or fittings, power cables, sensors, metal components and the jaws of spot welding systems. LOCTITE[®] SF 7900 Ceramic Shield is silicone-free.

TYPICAL CURING PERFORMANCE

Once applied the coating dries by solvent evaporation within 5 to 10 seconds at room temperature. Thicker films need longer drying time. Once the welding process begins, the coating hardens on the equipment surface by the heat generated. This provides optimum spatter repellent properties, especially for these severe operating conditions. Surfaces not subjected to any additional heat can be used straight after drying.

GENERAL INFORMATION

For safe handling information on this product, consult the Safety Data Sheet (SDS).

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a lubricant for chlorine or other strong oxidizing materials.

Directions for use:

1. Surfaces to be coated need to be clean and degreased.
2. Shake can for at least 1 minute to homogenize before use.
3. Spray from a distance of about 10 to 15 cm. Apply sparingly as excessive coating thickness causes flaking off.
4. Apply at temperatures below 65°C (150F).
5. When applying LOCTITE[®] SF 7900 Ceramic Shield to the tip of a plasma torch / cutter, ensure the air purge is on during application to prevent the product from clogging the tiny holes around the center orifice.
6. Allow product to dry.
7. The translucent film becomes white upon evaporation of solvents.

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: 8 °C to 21 °C. Storage below 8 °C or greater than 28 °C can adversely affect product properties. Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\mu\text{m} / 25.4 = \text{mil}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

Reference 0.4

Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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