

# BONDERITE S-FN 309 ACHESON

Known as EMRALON 309

December 2015

## PRODUCT DESCRIPTION

BONDERITE S-FN 309 ACHESON provides the following product characteristics:

<b>Technology</b>	Lubricant
<b>Product Type</b>	PTFE dispersion in solvent
<b>Application</b>	Dry film lubricant

BONDERITE S-FN 309 ACHESON is a concentrated dispersion of PTFE fluorocarbon resin in an isopropyl alcohol carrier. BONDERITE S-FN 309 ACHESON is designed to provide a fast-drying, low-friction coating when diluted or compounded as a lubricant.

Although BONDERITE S-FN products are not specifically designed as protective coatings, they do offer moderate resistance to chemicals.

### Special features

- Excellent lubricity
- Good surface adhesion to most substrates
- Fast-dry, room temperature cure
- Clean, easy application
- Life long lubrication in many applications
- Longer wear life than pure PTFE coatings
- Translucent

### Application Areas

Lubricant aerosol component  
Moving parts (wood, metal, fabric, plastic, rubber)  
Sealed systems  
Piano action parts  
Tools  
Solenoid plungers  
Storage bins  
Door and window guides/runners

## TECHNICAL DATA

### (of wet product)

Pigment	fluorocarbon resin (PTFE)
Binder	thermoplastic resin
Consistency	low viscous liquid
Solids content, %	~23.5
Viscosity, mPa.s (Brookfield 20 °C, 20 rpm)	~35
Flash Point (Tag closed cup), °C	11.7
Density, kg/m <sup>3</sup>	923
Theoretical coverage, m <sup>2</sup> /kg/ 10µm	10.3
Diluent	commercial alcohols, esters, ketones

### (as cured)

Color	translucent
Coefficient of friction (static)	0.06 to 0.09
Maximum service temperature: continuous, °C	80
intermittent, °C	115
Recommended film thickness, µm	5 to 17.5

## DIRECTION OF USE

### Preliminary Statement

Prior to use it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

### Surface Preparation

Prior to applying BONDERITE S-FN 309 ACHESON the substrates to be coated should be clean, dry, and free of all contaminants and residues, such as dirt, grease, powder. A solvent wipe or vapor degreasing and air dry is usually sufficient; however, sandblasting, phosphating or chemical etching will generally increase adhesion and wear properties.

### Dilution

BONDERITE S-FN 309 ACHESON is a concentrate to be diluted before use.

Agitate the concentrate to ensure uniform consistency.

Continue stirring and slowly add the diluent.

A dilution ratio of 1 : 3 (product : diluent) is suggested for initial evaluation.

The best ratio of performance and economy is determined at the point of use.

### Note:

A small amount of soft settling of the larger particles may occur during long periods of storage. Mild agitation will restore these particles back into suspension.

### Companion Products

BONDERITE L-GP M 210 ACHESON, a colloidal dispersion of molybdenum disulfide in alcohol, is recommended when the use of molybdenum disulfide is preferred.

BONDERITE L-GP 154 ACHESON, a colloidal dispersion of graphite in alcohol, is recommended when the use of graphite is preferred.

BONDERITE L-GP 154 ACHESON or BONDERITE L-GP M 210 ACHESON can be blended with BONDERITE S-FN 309 ACHESON for a combination PTFE graphite and/or molybdenum disulfide product.

**Storage**

Store BONDERITE S-FN 309 ACHESON in sealed packaging in a cold and ventilated area. Keep away from heat, sparks, and open flame. Protect from direct sunlight. Ground and bond containers when transferring materials. Empty containers may retain hazardous properties. Follow all MSDS/label warnings even after container is emptied.

**Shelf-Life**

- 24 months from date of qualification under original seal.

**Classification**

Please refer to the corresponding **Material Safety Data**

**Sheets** for details on:

**Hazards identification**  
**Transport information**  
**Regulatory information**

**ADDITIONAL INFORMATION****Disclaimer****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. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

**In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:**

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

**In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:**

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. 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.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

**In case products are delivered by Henkel Corporation, Resin Technology Group, Inc., or Henkel Canada Corporation, the following disclaimer is applicable:**

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

**Trademark usage**

Except as otherwise noted, all trademarks in this document are trademarks of Henkel Corporation in the U.S. and elsewhere. ® denotes a trademark registered in the U.S. Patent and Trademark Office.

Reference 0.0