

BONDERITE L-GP 318 ACHESON

Known as EMRALON 318
May 2017

PRODUCT DESCRIPTION

BONDERITE L-GP 318 ACHESON provides the following product characteristics:

Technology	Lubricant
Product Type	PTFE dispersion in water
Application	Dry film lubricant

This BONDERITE coating is one of a series of Henkel resin-bonded lubricant coatings designed to provide dry film lubrication and release properties in a variety of industrial and consumer applications.

BONDERITE L-GP 318 ACHESON is a resin-bonded polytetrafluorethylene coating with excellent lubricating and non-stick properties.

As the carrier liquid is water, BONDERITE L-GP 318 ACHESON can be applied in places where solvent based products cannot be used where ventilation is limited.

BONDERITE L-GP 318 ACHESON coatings being flexible can be applied on non-rigid materials such as plastics (e.g. gaskets) as well as rigid substrates such as metals.

TECHNICAL DATA

(as supplied)

Lubricant	PTFE
Binder	thermoplastic resin
Carrier	water
Solids content	~39%
Viscosity (Ford Cup 4, 20°C)	~15 s
Density	1,170 kg/m ³
Flash Point (Cleveland open cup)	>100 °C
Theoretical coverage	23 m ² /can at a coating thickness of 10 µ

(as cured)

Color	translucent, milky white
Texture	smooth
Static coefficient of friction	0.07
Maximum service temperature:	
continuous, °C	70
intermittent, °C	90
Fuel and oil resistance	good
Solvent resistance	good

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:

All substrates should be clean and free of dirt and grease. To ensure maximum adhesion clean the substrate with a suitable solvent or other cleaning method. Parts should be completely dry before application of BONDERITE L-GP 318 ACHESON.

Application:

BONDERITE L-GP 318 ACHESON can be applied by spray, dip, brush, dip spin or tumble spray. Application by spray gives the more uniform coverage of the substrate.

Dilution & Mixing:

The product can be applied undiluted but is usually diluted before application. As diluents use water or ethanol. Ethanol can be used to effect faster drying. For intermediate drying speed water and ethanol can be blended.

The following dilution ratios are recommended:

For application by spray: 5 parts of product to 1 part diluent
For application by dip: 2 parts of product to 1 part diluent
For application by dip spin: 2 parts of product to 1 part ethanol

All ratios are by weight.

Before application ensure that no sediment remains on the bottom of the container. The product should be completely homogeneous during application. Continued mild stirring during dilution and application is recommended.

Drying:

The coating dries to touch in air in approx. 15 minutes or by heating at 70°C in 5 minutes. The coating is completely dry after 3 hours in air or ½ hour at 70°C.

Storage:

Recommended storage temperature, °C	5 to 30
Shelf-life, months (in unopened original packaging)	12

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.

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