

## BONDERITE L-GP D31A

Known as Pulvegraph D31A  
June 2015

### PRODUCT DESCRIPTION

BONDERITE L-GP D31A provides the following product characteristics:

Technology	Lubricant
Product Type	Graphite in aerosol
Application	General lubrication

BONDERITE L-GP D31A is an aerosol presentation based on pure and low friction lamellar graphite, providing heat resistant and lubricating coatings at temperatures up to 1,000 °C and beyond.

BONDERITE L-GP D31A is a heat resistant varnish which polymerises at ambient temperature, and has a good covering power (about 7 m<sup>2</sup> /spray can).

### Benefits

- BONDERITE L-GP D31A is an aerosol presentation, indispensable for this type of composition, which provides lubricating and heat resistant films on any surface and at any temperature. At ambient temperature, the coating polymerises within 15 minutes and, at operating temperatures there is further hardening of the film which improves its refractory properties. For example, a 0.3 mg/cm<sup>2</sup> coating with a 3 µ thickness loses no weight after an exposure during 1/2 hour at 600 °C or lasts for 3 minutes at 900 °C.
- After a light curing at 100 °C the film becomes completely insoluble in normal solvents and obtains maximal resistance to abrasion.
- Generally, all the properties of the film: resistance against heat, abrasion, washing by any liquid and wear are improved with increase of surface temperature.

### Application

- BONDERITE L-GP D31A is applied in any case where release properties have to be improved and the friction effects reduced in operating temperatures up to 1,000 °C.
- Glasworks:  
Coating of the deflectors in bottle production as well as moulds treatment before use.
- Foundry:  
Pre-treatment of the surfaces of metallic moulds and pins  
Dry film lubrication in gravity die casting  
Pre-treatment of surface on plungers of pressure die casting machines
- Forging:  
Pre-treatment of dies before use in the forging process  
Forging of titanium and alloys
- Other:  
Chains and moving parts of ovens

### TECHNICAL DATA

Aspect	smooth grey black film
Solid lubricant	graphite
Graphite in dry film, %	85

### DIRECTION OF USE

#### Preliminary Statement

Prior to application 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.

#### Method of Use

- Degrease carefully the surfaces to be treated.
- Shake the aerosol vigorously for 30 seconds before use.
- Spray the product from 15 to 20 cm distance on surfaces, at a temperature less than 55 °C. For surfaces at ambient temperature, the film polymerises after 15 minutes.

#### Classification

Please refer to the corresponding **Material Safety Data Sheets** for details on:

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

#### Storage

Recommended Storage Temperature, °C	5 to 40
Shelf life, months (in unopened original packaging)	12

## 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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