



BONDERITE® L-GP D31A

September 2024

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 m²/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/cm² coating with a 3µ 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 for 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.

Direction for use:

- 1. Degrease carefully the surfaces to be treated.
- 2. 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:

Transport Regulations Hazardous Information Safety Regulations

Storage:

Recommended storage temperature, °C 5 to 40 Shelf-life (in unopened original packaging), months 12



Additional information

Disclaimer

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Reference 2