

BONDERITE L-GP 2404 ACHESON

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PRODUCT DESCRIPTION

BONDERITE L-GP 2404 ACHESON provides the following product characteristics:

Technology	Lubricant
Product Type	Graphite dispersion in solvent
Application	Dry film lubricant

BONDERITE L-GP 2404 ACHESON forms a tenacious dry graphite film on all surfaces.

This reduces friction, provides parting, and prevents wear.

It has remarkable powers of penetration into closely woven fabrics, fine pore cellular material, sintered metal, porous polymers, or composite bearing materials.

BONDERITE L-GP 2404 ACHESON has a white spirit carrier which evaporates to leave an adherent film with outstanding lubricating properties to 400 °C in air, or above 1,200 °C in reducing or inert atmospheres.

There is no low temperature limit to the capabilities of the dry film, and the dispersion itself can be used as a fluid film lubricant at least down to the pour point of 40 $^{\circ}$ C.

BONDERITE L-GP 2404 ACHESON can be diluted with a wide variety of non-polar compounds and is thus ideally suited for blending graphite with penetrating fluids, lubricating formulations, and liquified gases.

It will accommodate additions of resins and fluids compatible with white spirit and is ideal as the basis of surface coatings which require dry lubricating properties.

Special features

- Excellent high and low temperature dry film lubrication and parting.
- Finely divided graphite particles permit lubrication of fine clearances.
- Rapid and deep penetration of porous materials.
- Dry film: no dirt or fluff attraction; no "wicking" by paper, cotton, flour or other absorbent material.
- Totally opaque coating; can be burnished or calendered to a bright appearance.
- Residue-free: complete volatilization of graphite and its bonding agent at high temperatures after oxidation.
- Dispersion can be used for blending graphite into other fluids.
- Low viscosity; easy blending and mixing; easy to apply.

Application Areas

- · Gasket anti-stick coating
- Treatment of asbestos replacement materials
- Mineral or glass textile dressings
- Formulation of penetrating fluids

- Conveyor chain lubricant for hot and dusty conditions
- Kiln car bearing lubrication
- Low temperature lubrication
- Opaque and black body applications

TECHNICAL DATA

(as supplied)

Pigment graphite
Solids content, % ~10
Carrier white spirit

Diluent white spirits; hydrocarbons

such as chlorinated and

fluorinated solvents; kerosene; mineral oil

Density, kg/m³ 850 Theoretical coverage, ~23

m² /kg/10µm

Viscosity, mPa.s 5 to 50

(Brookfield, 25°C)

Flash Point (Open), °C 45 Flash Point (Pensky Martin 42

Closed), °C

Particle size mostly 1 µm or below, but

some particles up to 4 µm or

occasionally greater

Drying time 1 hour approx. at normal

ambient temperature

Sensitive substrates compatible with Nitrile and

Neoprene; unsuitable for natural, butyl or EP rubber

seals

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.

Handling

After storage BONDERITE L-GP 2404 ACHESON may require homogenizing. This can be by agitation or stirring, or the container can be rolled.

Application

BONDERITE L-GP 2404 ACHESON can be applied by brush, dip, spray or roller coat.

The product is normally diluted before use.

Because the applications are so diverse no single dilution rate can be recommended.



The following can be used as the starting points for evaluation:

Journal bearings 1 part product to 10 parts

kerosene

Plain bearing conveyors 1 part product to 5 parts

kerosene

Penetrating fluids 1 part product to 7 parts

penetrating carrier

Ceramic textile dressing 1 part product to 1 part

resin/solvent mix

Classification

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

Hazardous Information Transport Regulations Safety Regulations

Storage

Recommended Storage Temperature, °C 5 to 25 Shelf life, months (in unopened original packaging) 5 to 25

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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