

## BONDERITE L-GP OD EU ACHESON

Known as Oildag EU  
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### PRODUCT DESCRIPTION

BONDERITE L-GP OD EU ACHESON provides the following product characteristics:

|                     |                            |
|---------------------|----------------------------|
| <b>Technology</b>   | Lubricant                  |
| <b>Product Type</b> | Graphite dispersion in oil |
| <b>Application</b>  | Multi purpose              |

BONDERITE L-GP OD EU ACHESON is a highly stable dispersion of pure ultra fine graphite particles in solvent refined mineral oil.

It is added to mineral oils to increase their load carrying capacity and to reduce wear in conditions of boundary lubrication.

BONDERITE L-GP OD EU ACHESON may be used undiluted to provide lubrication in particularly severe conditions.

### Benefits

- Increases load carrying capacity of oils.
- Reduces wear.
- Remains stable at high temperatures.
- Prevents scoring or seizure.
- Provides thin smooth coatings of graphite on hot surfaces.
- Gives high temperature parting and release action.
- Passes through fine oilways and filters.
- Ensures trouble-free running-in.
- Extends lubrication service intervals.
- Reduces maintenance costs.
- Effective lubricant for all metal surfaces - unlike chemical additives.

### Application

#### High Temperature Bearing Lubrication

Conveyor chains of baking, enamelling and annealing ovens, kiln car bearings, blast valve stems, tyres of rotary kilns.

#### Assembly Lubrication

Pistons, gudgeon pins, crank shaft bearings, camshafts, valve stems and guides.

#### Running-In

I.C. Engines, compressors and pumps.

#### Forging

Lubrication of dies and tools for steel forging and hot pressing, hot brass stamping, high strength light alloy press forging.

#### Extrusion

Lubrication of dies and tools for aluminium and copper

alloys.

#### Pressure Diecasting

Die face lubrication and release, lubrication of ejectors, core slides and plungers.

#### Gravity Diecasting

Lubrication of core slides and pins.

#### Glass Container Manufacture

Mould and neck ring lubrication.

### TECHNICAL DATA

#### (as supplied)

|  |                                     |
|--|-------------------------------------|
| Lubricating solid                            | high purity micro-graphite          |
| Carrier                                      | mineral oil                         |
| Nitrogen residue, %                          | ~8.2                                |
| Viscosity, mPa.s<br>(Brookfield 20°C, 20rpm) | ~900                                |
| Particle size (majority), µm                 | 1                                   |
| Particle size (maximum), µm                  | 4 to 5                              |
| Density, kg/m <sup>3</sup>                   | 960                                 |
| Flash Point, °C                              | >200                                |
| Diluent                                      | mineral oil, paraffin, white spirit |

### 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.

#### **Dilution & Mixing**

We recommend the incorporation of the following percentages by volume of BONDERITE L-GP OD EU ACHESON.

| Application             | % BONDERITE L-GP OD EU ACHESON | Remarks                                    |
|-------------------------|--------------------------------|--|
| Oven conveyor chains    | 10%                            | Automatic lubricators are available        |
| Kiln car bearings       | 10%                            | Dilute with low carbon forming spindle oil |
| Blast valve stems       | 100%                           | Apply by brush                             |
| Rotary kiln tyres       | 100%                           | Apply between tyres and pads by spray      |
| Assembly lubrication    | 100%                           |  |
| Running-In I.C. Engines | 2%                             | Add to crank case oil                      |

|   |          |   |
|---|----------|---|
| Hot brass pressing                            | 7%       | Dilute with paraffin and spray dies   |
| Aluminium alloy forging                       | 25%      | Dilute with oil and spray dies  |
| Hot drawing steel shells                      | 100%     | Apply to mandrel by swab or brush after quenching   |
| Extrusion aluminium and copper alloys         | 25%-100% | Swab die mandrel, dilute with oil   |
| Pressure die casting aluminium release agents | 10%-20%  | Dilute with mineral oil, white spirit or paraffin. Swab or spray dies                             |
| Diecasting lubricants                         | 25%-100% | Dilute with mineral oil and apply to ejectors, core slides and plungers by brush or swab          |
| Glass bottle manufacture                      | 10%-20%  | Use light low carbon forming oil. Apply sparingly to blank moulds and neck rings by swab or spray |

### Storage

|  |         |
|--|---------|
| Recommended Storage Temperature, °C                    | 5 to 40 |
| Shelf-life, months<br>(in unopened original packaging) | 24      |

### Classification

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

**Sheets** for details on:

**Hazardous Information**  
**Transport Regulations**  
**Safety Regulations**

## 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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