

BONDERITE L-GP 156 ACHESON

Known as Dag 156 November 2015

PRODUCT DESCRIPTION

BONDERITE L-GP 156 ACHESON provides the following product characteristics:

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

BONDERITE L-GP 156 ACHESON is a graphite dry lubricant which satisfies the stringent requirements for lubricating the internal and auxiliary equipment mechanisms of commercial and naval nuclear reactor systems.

Extremely high purity graphite particles in thermoplastic resin and isopropanol produce a thin, dry, non corrosive film.

A BONDERITE L-GP 156 ACHESON film resists abrasion and effectively lubricates moving parts, rubbing surfaces, and threaded parts for easier assembly, trouble-free operation and non-destructive disassembly.

BONDERITE L-GP 156 ACHESON maintains a high level of chemical purity.

It provides non corrosive, dry, adherent lubrication for metal parts with limited clearances in applications where control of impurities is required.

Special features

- · High lubricity
- Thin, dry film
- Prevents, seizing, fretting, galling
- Easy application
- Fast air dry
- · Excellent adhesion
- · Does not migrate
- · Unaffected by frost

Application Areas

Nuclear reactors, commercial and naval.

TECHNICAL DATA

(as supplied)

Lubricant processed micro-graphite
Binder thermoplastic resin

Solids content, % ~3.3
Flash Point (open cup), °C 11
Density, kg/m³ 792
Color black
Consistency liquid
Diluent isopropanol

Particle size/µm

Max. dimension of 90% of the particles 4
Max. dimension of any particle 10

Ash: weight percent, maximum on total solids 0.75 Fluorine: parts per million, maximum on total solids 20 Chlorine: parts per million, maximum on total solids 200 Sulphur: parts per million, maximum on total solids 200 Lead: parts per million, maximum on total solids 150

(as a cured coating)

Coefficient of friction (static) 0.15

Service temperature, °C continuous: 200 °C; intermittent: 455 °C

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Film properties:

Spalling Film continuity shall not be

broken, metal surface shall

not be exposed.

Adherence The coated surface shall be

dry and shall not become exposed when subjected to

light abrasion.

Appearance Dry, non-oily

Odour Characteristic of isopropanol.

No odour of halogenated

solvents shall be detected.

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.

Pretreatment

Substrates should be clean and dry before application. A solvent wipe and air dry is usually sufficient. For critical applications requiring maximum adhesion, mechanical or chemical pretreatment such as grit blasting, phosphating, anodising or etching is recommended.

Dilution

BONDERITE L-GP 156 ACHESON is supplied ready for use. If further dilution is required by the application, add Isopopanol while stirring thoroughly.

Application

Shake or agitate well before using.

BONDERITE L-GP 156 ACHESON can be applied by spray,

brush or dipping.



Curing

BONDERITE L-GP 156 ACHESON air dries in approx. 5 minutes, depending on temperature and humidity.

Storage

Recommended Storage Temperature, °C 5 to 30 Shelf-life, months 24 (in unopened original packaging)

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. Any liability in respect of the information in the Technical Data Sheet or any

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