

BONDERITE L-GP MD 210

Known as Molydag 210
June 2022

PRODUCT DESCRIPTION

BONDERITE L-GP MD 210 provides the following product characteristics:

Technology	Lubricant
Product Type	Molybdenum disulphide dispersion in alcohol
Application	Dry film lubricant

BONDERITE L-GP MD 210 is a colloidal dispersion of molybdenum disulfide in alcohol. BONDERITE L-GP MD 210 offers excellent extreme pressure lubrication in a resin bonded system that air dries in five to ten minutes without any need for further heat curing. The material is easily applied by standard spray, brush, or dip methods to all substrates not affected by the fluid component. BONDERITE L-GP MD 210 is supplied as a concentrate to be used as is or diluted in appropriate solvent for final application.

Special Features:

- One component system
- Clean, easy application
- High load carrying capacity
- Excellent lubricity
- Wide temperature range
- Good surface adhesion to most substrates
- Life long lubrication in many applications

Benefits:

- High lubricity for tight tolerances of mating parts
- Allows for a variety of parts to be processed with the same coating, saving on costs
- Minimum pre-treatment and energy cost required, reducing application costs
- Economic savings in time and processing costs for application of the coating

Application Areas:

BONDERITE L-GP MD 210 is very well suited for the cleaning of engine components for assembly and break-in requirements; mating surfaces of assemblies and machinery components; mechanisms, tumbler locks and automotive and industrial gaskets.

BONDERITE L-GP MD 210 is used as an Anti-seize thread lubricant as well as an Aerosol lubricant additive.

TECHNICAL DATA

(of wet product)

Color	grey-green
Pigment	colloidal MoS ₂
Binder	thermoplastic resin
Diluent	alcohols, esters or ketones
Consistency	fluid
Density, kg/L	0.91
Solids content, %	20
Flash Point, °C	11
VOC, g/L	730
Theoretical coverage, m ² /Kg @ 25 µm	3.66

(as cured)

Color:	grey-green
Coefficient of friction (static)	0.23
Service Temperature, °C	200

DIRECTIONS 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.

Surface Treatment

All surfaces should be dry and free of contaminants such as dirt, grease and powder. A solvent wipe or vapor degreasing and air dry is usually sufficient; however, sandblasting, phosphating or chemical etching will generally increase adhesion and wear properties. Porous substrates should be heated sufficiently after the solvent wipe to drive off any entrapped contaminants, solvents, and moisture.

Dilution & Mixing:

Stir the concentrate thoroughly before dilution. The dilution ratio recommended for initial valuation is 1:5 (product: diluent). The best dilution ratio, considering performance and economy is generally worked out on the job. Typical film thickness ranges from 5 to 12 microns (0.2 to 0.5 mil). A coating thickness of 25 micron (1 mil) of BONDERITE L-GP MD 210 is best built up by the application of 5 coats by spray application. Dilution of 1 part by volume product to 3 parts by volume of solvent is necessary to obtain an adherent coating of this thickness.



Application:

For small production work and prototypes, a suction cup gun may be used, if BONDERITE L-GP MD 210 is thoroughly mixed prior to spray application. For intermediate production runs or many small parts, propeller-type attachments should be used on the suction gun to ensure coating uniformity. Full production is best handled with propeller-agitated pressure pot systems, which provide the best in application efficiency. After dilution BONDERITE L-GP MD 210 can be applied by spray, brush or dip methods.

Drying:

BONDERITE L-GP MD 210 air dries to touch in 5minutes, to handle in 30minutes. Following the air dry, bake for 5 minutes at 75°C to achieve optimum coating qualities in a shorter curing cycle. When applied during periods of high humidity, the coating may become mottle din color. This does not affect performance.

Application Assistance:

Acheson's Application Specialists are available to assist you in production start-up with BONDERITE L-GP MD 210 . Visit our website www.achesonindustries.com for more information and for the Acheson global location nearest you.

Classification:

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

Sheets for details on:

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

Storage:

Recommended Storage Temperature, °C	8 to 28
Shelf-life, months (in unopened original packaging)	24

ADDITIONAL INFORMATION**Disclaimer**

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 other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

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