

# **BONDERITE L-AD M 200 ACHESON**

## **LUBRICANT ADDITIVE**

(KNOWN AS MOLYDAG 200)

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### **Description:**

**BONDERITE L-AD M 200 ACHESON (known as MOLYDAG 200)** is an extremely stable suspension of uniform, microscopic molybdenum disulfide particles in a highly refined petroleum oil concentrate. As an additive, **BONDERITE L-AD M 200 ACHESON (known as MOLYDAG 200)** substantially improves the extreme pressure, anti-wear and anti-friction capabilities of oils and greases and provides reliable lubrication in those demanding applications that approach boundary lubrication conditions.

With constant use, **BONDERITE L-AD M 200 ACHESON (known as MOLYDAG 200)** produces a durable, mirror-like film of MoS<sub>2</sub> on mating surfaces for effective lubrication up to 750°F (399°C)--and higher in the absence of air. This solid MoS<sub>2</sub> film enables the oil to spread and renew interrupted films quickly to prevent any metal-to-metal contact.

Specific advantages offered by **BONDERITE L-AD M 200 ACHESON (known as MOLYDAG 200)** include:

- High lubricity
- Great affinity for metal substrates
- Excellent adhesion
- Supports extreme loads; cannot be squeezed out
- Eliminates galling, seizing, stick-slip and press-fit distortion
- Reduces wear-in time for new equipment
- Prevents fretting
- Facilitates disassembly
- Protects against corrosion
- Thermally stable over wide temperature range
- Chemically stable
- Extends lubrication service intervals
- Reduces maintenance costs through more effective lubrication

### **Typical Applications:**

Additive for:	Gear oils	Greases
	Penetrating oils	Hydraulic oils
	Industrial lubricants	Specialty oils
	Conveyor chain lubricants	Cutting oils

### **Physical Properties:**

Lubricating solid:	molybdenum disulfide
Carrier:	petroleum oil
Diluents:	petroleum oils, grease
Viscosity:	30 cSt at 210°F (98.9°C) typical
Solids Content:	15%
Density:	8.3 lb/gal (0.996 kg/l)
Flash point:	385°F (196°C)
Color:	gray-green
Shelf life:	two years from date of qualification under original seal.



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## **Method of Use:**

### **Dilution**

**BONDERITE L-AD M 200 ACHESON (known as MOLYDAG 200)** can be blended with most commercially available oils or greases. The services of Henkel laboratories are available to advise and/or evaluate the compatibility of **BONDERITE L-AD M 200 ACHESON (known as MOLYDAG 200)** with proposed diluents. **BONDERITE L-AD M 200 ACHESON (known as MOLYDAG 200)** is completely compatible with most oil or grease additive treatments.

In blending operations involving large quantities, the oil should be heated to about 150°F (66°C) since blending is more efficient when oil viscosities are reduced. Stir the Molydag®200 thoroughly to achieve a uniform consistency, then pre-mix equal parts of **BONDERITE L-AD M 200 ACHESON (known as MOLYDAG 200)** and the oil diluent before blending with the balance of the oil. Maintain continuous agitation by mechanical stirring or dry air blowing throughout the blending operation.

### **Application**

For best results, use **BONDERITE L-AD M 200 ACHESON (known as MOLYDAG 200)** at 1% solids by weight in the finished lubricant, or use approximately 6.7% product by weight of **BONDERITE L-AD M 200 ACHESON (known as MOLYDAG 200)**. Blended **BONDERITE L-AD M 200 ACHESON (known as MOLYDAG 200)** can be applied by any of the conventional methods: brush, dip-tank, drip, or spray.

### **Precaution:**

To avoid contamination, keep container tightly sealed when not in use. (Refer to Henkel Material Safety Data sheet for current safety and first aid procedures.)

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