Technical Process Bulletin

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_2 on mating surfaces for effective lubrication up to 750°F (399°C)--and higher in the absence of air. This solid MoS_2 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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