

# EA MOLY-LITHIUM GREASE

## MoS<sub>2</sub> Lithium Grease

- *Extra Protection*
- *Industrial Application*

Moly-Lithium Grease is an extreme pressure/antiwear grease, formulated with a lithium soap thickener and highquality mineral base oil. It contains selected additives and molybdenum disulfide (MoS<sub>2</sub> or ‘moly’ ). It has outstanding extreme pressure/antiwear properties and mechanical stability. Available as NLGI grades 1, 2 and 3.

**DESIGNED TO MEET CHALLENGES**



### Description

Moly-Lithium Grease is suitable for use in:

- Bearings and gears of heavily loaded equipment operating under vibrating/oscillating conditions, such as those used in the steel and mining industries, where a robust extreme pressure/antiwear grease is required.
- Applications where the temperature range is from –20°C to +160°C.

### Features and benefits

- Excellent extreme pressure and antiwear properties protect heavily loaded or shock-loaded bearings and gears from wear, extending equipment life.
- Solid molybdenum disulfide provides an additional measure of residual lubrication, which protects metal surfaces against wear in applications where vibrating or oscillating movement tends to squeeze out the grease from friction pair.
- Lithium soap thickener ensures good mechanical stability, so the grease structure does not soften or break down in service.
- Good water resistance properties ensure the grease is not easily washed out of bearings or off gear surfaces, so ensuring optimum protection.
- Good adhesive properties ensure the grease sticks to the metal surfaces sealing out dirt and abrasive materials, and so allows longer lubricating intervals.
- Provides good protection against rust and corrosion, extending component life and relubrication intervals.

Available in NLGI grades 1, 2 and 3 to meet the requirements of specific applications

For a full listing of equipment approvals and recommendations, please consult your local EA Technical Helpdesk, or the OEM Approvals website <http://ea-lubricant.com>

### Typical physical characteristics

NLGI Grade	No 1	No 2	No 3
Thickener type	Lithium/ Calcium		
Base fluid type	Mineral		
Kinematic viscosity, ASTM D445 cSt @ 100°C (range)	9-13	9-13	9-13
Cone penetration, ASTM D217	310-340	265-295	220-250
Dropping point, °C, ASTM D566	196	199	200
Oil separation, 24 h @ 100°C, %, FTMS 791C-321.3	6.8	2.8	0
Four ball wear test - wear scar diameter (40 kgf/75oC/1200rpm/1hr), mm, ASTM D4048	non-corrosive		

Corrosion prevention, 48 h @ 52°C, rating, ASTM D1743	Pass	Pass	Pass
Water washout, 1 h @ 38°C, %, ASTM D1264	3.5	1.25	1.25
Four ball EP, maximum non-seizure load PB, N, ASTM D 2596	618	618	618

*These characteristics are typical of current production.*

### **Health, Safety & Environment**

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS)