



MOLYKUL
WORLD OF MOS₂ LUBRICANT

MOLYKUL GREASE INDUS-SPEC



hardaiarmnd.com

ANTI-SEIZE MOLY GREASE

MoS₂ grease as an anti-contaminant is a specialized lubricant containing molybdenum disulfide, designed to protect surfaces by reducing friction and wear in mechanical systems. It offers exceptional lubrication, even in environments with high temperatures and pressures, making it ideal for safeguarding machinery and components .

HIGH TEMPERATURE

MoS₂ grease with high-temperature capacity exhibits exceptional heat resistance, maintaining its lubricating properties even under extreme temperatures.

ANTI-CONTAMINANT

MoS₂ grease as an anti-contaminant demonstrates impressive corrosion resistance, safeguarding surfaces against degradation even in harsh environments.

ECO-FRIENDLY

MoS₂ grease is environmentally friendly, as it is free from harmful chemicals and compounds. Its use reduces the need for traditional lubricants.

LONG LIFE

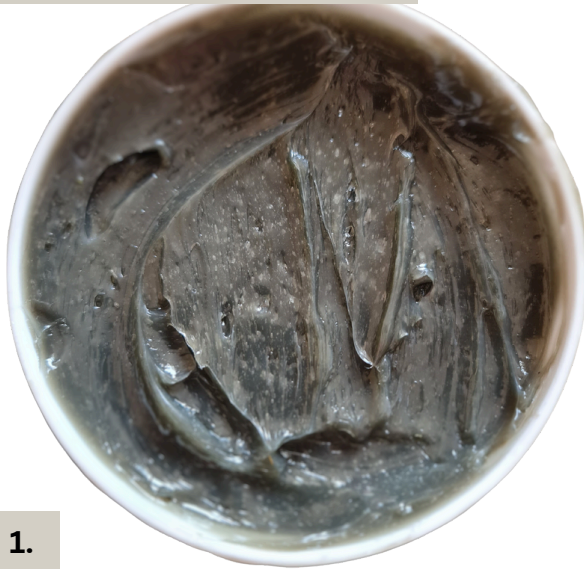
MoS₂ grease prolongs the lifespan of machinery and components by reducing friction and wear. Its durable nature ensures long-lasting protection against mechanical stress.



GREASE VARIANTS

Hardai ARMND's MolyKul brand offers two variants of MoS2 grease: NLGI1 and NLGI2. NLGI1 MoS2 grease is formulated to have a softer consistency, making it easier to apply and suitable for low-temperature applications. It provides excellent lubrication in situations where a thinner layer of grease is preferred or required. On the other hand, NLGI2 MoS2 grease is designed with a slightly firmer consistency, offering enhanced stability and staying power under higher temperatures and heavier loads. It is ideal for applications where greater mechanical stress is anticipated or where prolonged lubrication is necessary. Both variants of MolyKul MoS2 grease exhibit outstanding heat resistance, corrosion protection, and environmental friendliness, contributing to prolonged machinery lifespan and optimized performance.

PRODUCT CODE: HAES_MKG-MOS2-2



1.

INDUS - SPEC NLGI 2



ANTI-CONTAMINANT



HIGH TEMPERATURE



ECO-FRIENDLY



LONG LIFE

PRODUCT CODE: HAES_MKG-MOS2-1



2.

INDUS - SPEC NLGI 1



ANTI-CONTAMINANT



HIGH TEMPERATURE



ECO-FRIENDLY



LONG LIFE

100% MADE IN INDIA

Other countries are reaping the benefits of MoS₂ grease as India synthesizes MoS₂ entirely within its borders and produces **MoS₂ grease domestically**. By localizing this technology, India not only **reduces dependency on imports** but also stimulates its own economy. This localization ensures quicker access to MoS₂ grease, **reducing lead times** and transportation costs for international buyers. Moreover, having the technology within the country enables **easier customization and adaptation** to specific industrial needs.

SAVE UP TO
65%

PRODUCT CODE - HAES_MKG-MOS2-2

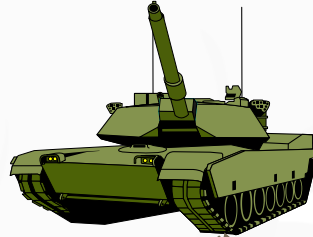
DATASHEET COME TESTING



Hardai ARMND synthesizes MoS₂ as per AMS 2526 and incorporates 2D Monolayer quantum dot MoS₂ powder as an additive to grease formulations. The quality of the grease is tested according to IS1448 (PTS) standards. MoS₂ grease finds diverse applications across industries such as automotive, aerospace, marine, and manufacturing. In automotive applications, it lubricates wheel bearings, chassis components, and engine parts, enhancing fuel efficiency and prolonging component lifespan. In aerospace and marine applications, MoS₂ grease ensures smooth operation of critical components like actuators, bearings, and gears in extreme environments. In manufacturing, it is used for machinery maintenance and equipment assembly, reducing downtime and improving productivity by minimizing friction-related issues.

Density of MoS₂	5 g/cc
Melting point	2300°C
Min. Particle size	10 nano meter
Storage requirement	Dust free packing
Human consumption	Hazardous
Base Material	Lithium (NLGI2) (IS1448)
Coating Colour	Black
Doping as per app.	Cu, Tin, Ti, Cr, Si, SiO₂
Kinematic viscosity in CST at 40 Deg C	Ranging from 120 to 150 (IS1448)
Temperature range	-47 °C to 320 °C (IS1448)
Weld Load	2.3KN (ASTMD2596)
Extreme pressure Load	1.9KN (ASTMD2596)
Frictional Torque	1.33Nm (ASTMD2596)
Property	Anti-seize with MoS₂ (3% to 5%)

APPLICATION



**Armed
FORCE**

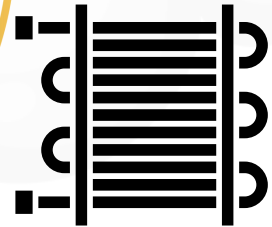
Railways



Mines

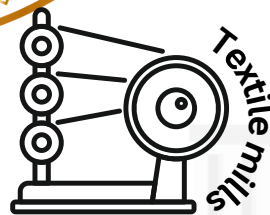


FACTORIES

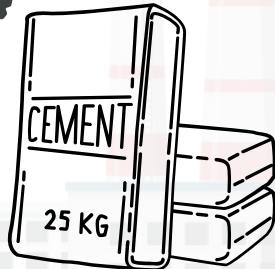


Heat Transfer

**Agriculture
Equipments**



Textile mills



CEMENT FACTORIES



MOLYKUL

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