

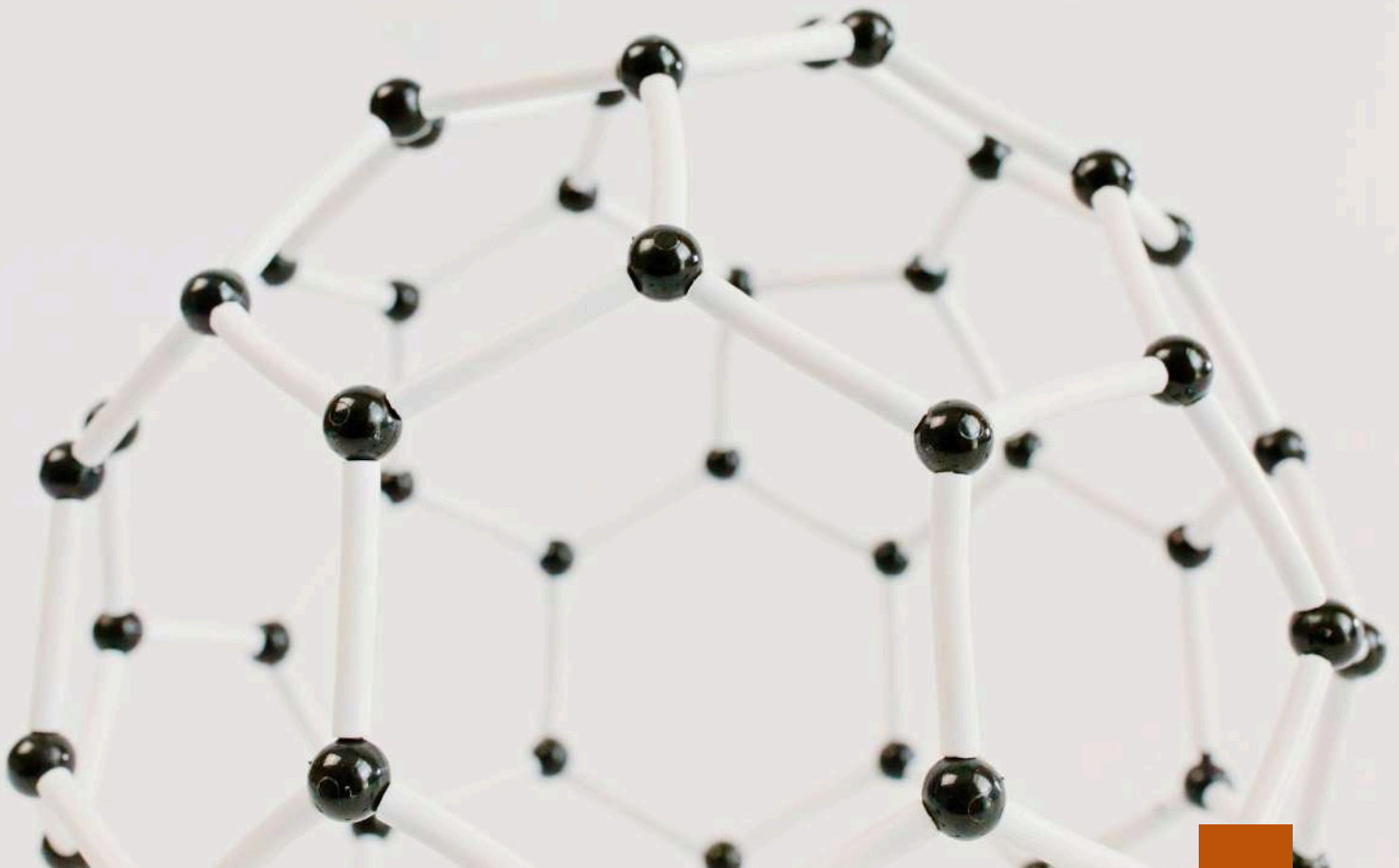


HARDAI ARMND ENGINEERING SOLUTIONS
DESIGN IN INDIA



MolyKul Coat

MONO-COAT



<https://hardaiarmnd.com>
<https://molykul.com>



We are 1st in India

With our premium MoS₂ Mono
Layer Coating Dry lubrication
products & Services



Mono-Coat Components

Molybdenum Disulfide micro coating for dry lubrications (Service)



MonoCoat Spin

Description

MoS2 coated steel balls makes the spinning durable and heat free.

Bearings, Ball Screw, Valve seat, LM guide, etc



MonoCoat LMG

Description

MoS2 coating reduces risk of breakdown and ensures long term precision.

LM guide block, Ball screw Nut, roller Screws, etc



MonoCoat BHP

Description

MoS2 coating plays vital role in improving durability in BHP of Engine.

Piston rings, Piston pins, Piston skirt, Fasteners, rod, etc



MonoCoat MAKE

Description

MoS2 ensures the durable fatigue cycle of the CNC machines and manufacturing machine parts

Tool Collets, Nuts, ATC gripper, fasteners, tools, etc



MonoCoat BN

Description

MoS2 coating on fasteners ensures the locking of fasteners against the thermal load loosening.

Nuts, bolts, lock nuts, key ways, washers & fasteners



MonoCoat Hydro

Description

MoS2 coating is the new shield for pumps and compressors against wear, corrosion and dropping life.

Swash plates, pumps and compressor components



MonoCoat CUT

Description

MoS2 coating is highly efficient to improve tool life and ensures long term precision. [Under R&D]

Milling tools, drilling tools and other cutting tools



MonoCoat AUX

Description

MoS2 coating improves tribological aspects where compression and tensions are cyclic.

Circlips, spacers, springs, pins, rings, waved washer, etc



MonoCoat XXX

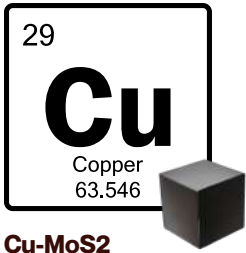
Description

Hardai ARMND welcome to all customization of MoS2 coating on different components

Customization

Molykul Mono-Coat

Doping Nanomaterials customizations with MoS₂ by Hardai ARMND



Cu-MoS₂

Applications

Manufacturing, Automotives, Vacuum, turbines, bearings, rollers

Customization available



Sn-MoS₂

Applications

Electronics, switches, connectors, sensors, thermostat, etc.

Customization available

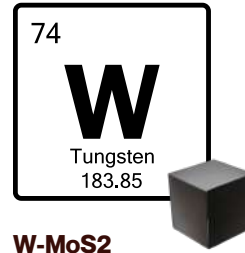


Ti-MoS₂

Applications

Automotives, Aerospace, Manufacturing, High speed bearings

Customization available

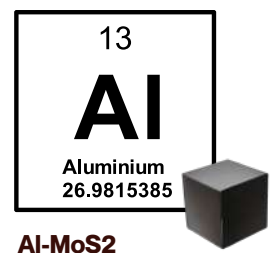


W-MoS₂

Applications

Engine, Mold and dies, cutting tools, Chain & Pulley, gears, bearings.

Customization available



Al-MoS₂

Applications

Aerospace, Defense, Biomedical, Automotives, Environment

Customization available



Cr-MoS₂

Applications

Biomedical, Healthcare equipments, Aerospace, Manufacturing

Customization available

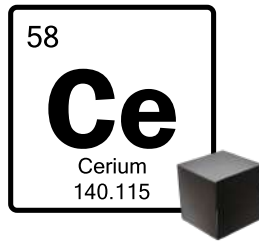


Si-MoS₂

Applications

Biomedical, Healthcare equipments, Electronics, Automotives

Customization available



Ce-MoS₂

Applications

Aerospace, Pollution control, High speed bearings.

Customization available



Zn-MoS₂

Applications

Gear box, Heavy Duty, Engines, Brakes, Cutting tools, electrical actuators

Customization available



Mn-MoS₂

Applications

Jet Engines, High Temperature Applications

Customization available

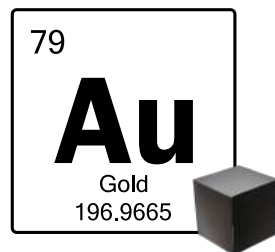


Sb-MoS₂

Applications

Heavy Duty, cyclic load, Micro Movements, manufacturing

Customization available



Au-MoS₂

Applications

Electro-Mechanical actuators, Aerospace

Customization available



Ag-MoS₂

Applications

Aerospace, satellite, Bearings, gears.

Customization available

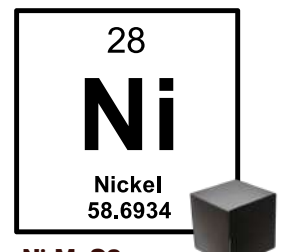


Sm-MoS₂

Applications

Aerospace, automotives, Manufacturing

Customization available



Ni-MoS₂

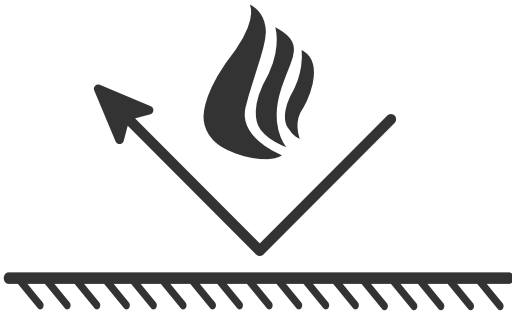
Applications

Thermal Insulations, pumps & compressors, automotives, Aerospace

Customization available

Molykul properties

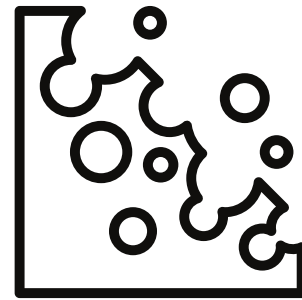
Core properties of MolyKul Mono-Coat



Wide Temperature Range

Description

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



Anti-Corrosion

Description

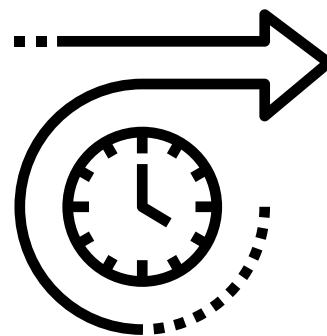
MoS₂ Nano material as an anti-contaminant demonstrates impressive corrosion resistance, safeguarding surfaces against degradation even in harsh environments.



Eco-Friendly

Description

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



Highly durable

Description

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

MolyKul Specs

Technical Specifications of MolyKul Mono-Coat

MolyKul Mono-Coat, a MoS₂-based coating from Hardai ARMND, enhances rotating and linear motion parts by:

- * Reducing friction and wear through its low-friction interface
- * Enhancing efficiency by minimizing metal-to-metal contact
- * Providing lubrication and corrosion resistance
- * Extending component life and reducing maintenance costs
- * Offering versatility for high-load, high-speed, and harsh environments
- * Improving performance in bearings, LM guides, pumps, and other applications

Density of MoS₂	4.9 g/cc
Melting point	2300°C
Min. Particle size	10 nano meter
Storage requirement	Dust free packing
Human consumption	Hazardous

Min. Coating Thickness	1 micro meter
Coating Coloue	Blackish
Endurance life of component	40% +
Dopping Components	As per application
Standards	AMS2526, ASTM G99



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