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Most tribological studies on graphene have been carried out at the nano-scale and micro-scale, building the case for graphene to be used as a solid lubricant. Recent meso-scale and macro-scale tribological investigations confirm previous predictions and open up new opportunities for graphene use as a solid lubricant in macro-scale systems too.

Graphene: a new emerging lubricant -
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Graphene being two-dimensional material, offers unique friction and wear properties that is not typically seen in conventional materials.

Besides its well-established thermal, electrical, optical, and mechanical properties, graphene can serve as a

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solid or colloidal liquid lubricant. Its high chemical inertness, extreme strength, and easy

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Materials Today Volume 17, Number 1
January/February 2014 RESEARCH
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Accordingly, the search continues for novel materials, coatings, and lubricants (both liquid and solid) that can potentially reduce friction and wear. Despite intense R&D efforts on graphene for a...

(PDF) Graphene: A new emerging
lubricant - ResearchGate

Graphene is starting to emerge in many industrial sectors as an alternative to the status quo and has started to be used in commercial products. One area that has emerged in the last few years is the use of graphene as a lubricant. When people often think of lubricants, they think of a fluid that is present in their cars or

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Could Graphene Lubricants Replace
Oil?

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Berman D, Erdemir A, Sumant A V.
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Mater Today 17(1): 31–42 (2014)
Google Scholar [6] Le Cao Ky D, Tran

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Khac B C, Le C T, Kim Y S, Chung K H.
Friction characteristics of
mechanically exfoliated and CVD-
grown single-layer MoS₂. Friction 6(4)
...

Recent advances in friction and
lubrication of graphene ...

Graphene - the thinnest solid lubricant
New research into graphene flakes
has discovered that the material can
act as a surfactant, for the first time
demonstrating how it can be a
versatile 2D stabilizer ideal for many
industrial ... Graphene can act as
surfactant -- ScienceDaily Berman D,
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Graphene's hexagonal structure makes it an excellent lubricant. While researchers have found many materials that help to reduce friction, conventional lubricants often have chemical limitations. A recent analysis at the U.S. Department of Energy ' s Argonne National Laboratory has identified the properties of a newer, exceptionally wear-resistant substance that works in a broader range of environments.

Researchers fight friction and wear with one-atom-thick ...

Graphene : Solid Lubricant

Graphene powder or flakes are used as lubricant. High load carrying

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capacity Friction and wear reduction depends on number of layers of graphene With a coating thickness of 0.001-0.002 μm , graphene gives a coefficient of friction of 0.15-0.2 in humid as well as dry conditions. 11.

Study of Graphene as lubricant -
SlideShare

D. Berman, A. Erdemir, A.V. Sumant:
“ Graphene: A new emerging lubricant ” . Materials Today, 17, 31-42 (2014). D. Berman, A. Erdemir, A.V. Sumant: “ Graphene as a protective coating and superior lubricant for electrical contacts ” . Applied Physics Lett, 105, 231907 (2014).

Diana Berman | Materials Science and
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For the application of graphene as a dry lubricant, N, N-dimethylformamide (DMF) was used to deagglomerate graphene platelets and graphite nanoparticles and to apply the platelets and particles to the bearing surfaces [22, 23]. For the investigation, graphene platelets of three different thicknesses were applied: 2 nm, 6–8 nm, and 11–15 nm.

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Investigations on Graphene ...

In a study on the potential of graphene as a new emerging lubricant 5, researchers estimated that the reduced loss of energy to friction offered by new materials would yield potential energy savings of 2.46 billion kilowatt-hours per year, equivalent to 1.5 million barrels of oil.

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Exploring the possibility of limitless bearing wear | Flow ...

A New Method for the Functionalisation of Graphene An international research team involving Professor Federico Rosei of the Institut national de la recherche scientifique (INRS) has demonstrated a novel process to modify the structure and properties of graphene, a one atom thick carbon.

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