



# Graphene: a new emerging lubricant<sup>☆</sup>

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In recent years, reducing friction and wear-related mechanical failures in moving mechanical systems has gained increased attention due to friction's adverse impacts on efficiency, durability, and environmental compatibility. 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 myriad of existing and future applications, its tribological potential as a lubricant remains relatively unexplored. In this review, we provide an up-to-date survey of recent tribological studies based on graphene from the nano-scale to macro-scale, in particular, its use as a self-lubricating solid or as an additive for lubricating oils.

## Introduction

Increasing transportation and other industrial activities since the beginning of the last century have been consuming much of our non-renewable energy resources (like petroleum) day by day, and a significant portion of the energy produced is spent overcoming friction in moving mechanical systems. More important, much of the fuel used to generate energy turns into CO<sub>2</sub>, which contributes to climate change and could have dire consequences [1]. Accordingly, more effective control or reduction of friction in moving mechanical systems is very important for a sustainable future.

Frequently encountered in our daily activities, friction is a fact of life. Sliding, rolling, or rotating-contact interfaces in every man-made, natural or biological system generate friction. If not reduced or controlled effectively, high friction often leads to higher wear losses and, hence, shorter life and poor reliability. Consequently, friction has been one of the most active fields of study in the past. Many researchers are still working to understand the root causes of

friction and new ways to nearly eliminate it to achieve much higher efficiency and longer durability in all types of moving mechanical systems [2].

One of the most effective ways to control friction is to use a lubricant in liquid and/or solid forms. Even certain gases may be used to lubricate rubbing surfaces. Liquid lubricants reduce friction by preventing sliding contact interfaces from severe or more frequent metal-to-metal contacts or by forming a low-shear, high-durability boundary film on rubbing surfaces. For example, depending on the sliding speed and other operating conditions, engine oils can effectively separate the contacting surfaces of rings and liners and, thereby, reduce the frequency of direct metal-to-metal contact and thus friction and wear. If and when there is metal-to-metal contact, the additives in these oils form a low-shear, highly protective boundary film to provide additional safety. In short, reducing friction means higher fuel savings; reducing wear means longer durability. Thanks to these solid and liquid lubricants, machine components of today's engines and other mechanical systems operate safely and smoothly for a long time.

Liquid lubricants are delivered to sliding interfaces through a pump or by other kinds of oil delivery mechanisms, while solid lubricants have to be applied as thin films using physical vapor deposition (PVD) and/or chemical vapor deposition (CVD) methods. Due to their finite thickness, solid lubricant films wear out eventually and lose their effectiveness. They are also very sensitive

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