

2D material for lubrication, a commercial application.

Simone Ligi, Valentina Sacchetti, Claudio Cacciola.

Graphene-XT srl Via Massimo d'Azeglio, 15 - 40123 Bologna (BO) Italy

info@graphene-xt.com

Additive formulation is crucial step in lubricating oil industry for improving some intrinsic properties of the base oil, removing some of its undesirable characteristics and eventually displaying some new features. In this contest, 2D material can play an important role not limited to the pure technical performance of a new technology, but also by contributing to the transition to a more ecofriendly products.

Graphene-XT (GXT), an innovative start-up with a proprietary graphene production patent, which core business is the application in various industrial fields through customer-designed solutions, is about to lunch its first product line of graphene-based engine oils for traditional cars, mileage cars and classic cars.

Thanks to its "sliding" chemical nature, graphene emerged as a perfect lubricating agent to enhance the anti-friction and anti-wearing characteristics of engine oils, but we found it is much more than that.

Tests unveiled the enhanced properties of our graphene-based additive for engine oils. Additionally, the graphene's effect was also demonstrated by bench test and on high-performance oils for motocross directly on track.

GXT-LUBE®, our new product line, is worth being known.

Figures



Figure 1: GXT Lube range.