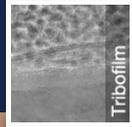
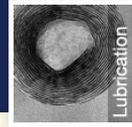
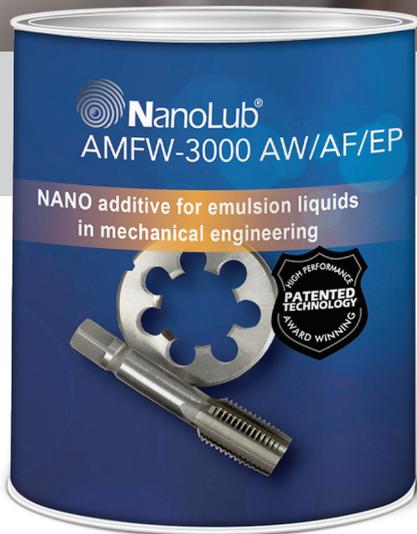


NanoLub® AMFW-3000 AW/AF/EP

additive for emulsion liquids in mechanical engineering



Does not contain oil!



1-200 litres

Main advantages of our greasing nano-additives

-  High efficiency against wear, friction and extreme pressure
-  Can be used at high as well as low temperatures
-  Radically extend lifetime of tools
-  Better quality machining
-  Do not cause skin diseases
-  Not subject to rotting



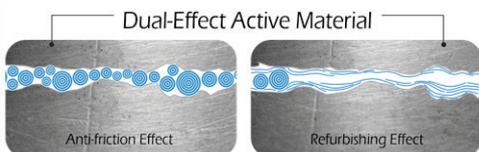
NanoLub® AMFW AW/AF/EP is an additive for emulsion liquids on a very strong tungsten disulfide (WS₂) basis. Harmless and non-toxic closed particles according to the OECD protocols. Does not contain chlorine, boron, formaldehyde or zinc. Furthermore, it does not contain critical amines, such as monoethanolamine and dicyclohexylamine.

NanoLub® AMFW is a specially developed additive for emulsion liquids for wear reduction of tools during machining in mechanical engineering processes. Suitable applications: turning, milling, drilling, cutting, threads forming and rolling, grinding, shaping... Mainly in places focused on production performance and economics. A NanoLub® AMFW advantage is a significant lifetime extension of tools, resulting in a production idle time reduction and equipment ability to work at higher loads and speeds. It has a great heat conductivity, which means that machining is performed at lower temperatures, while the quality improves (lower Ra), does not cause skin diseases, is not subject to rotting, anti-corrosion protection, environment friendly... It shows excellent properties against extreme pressure

(EP), friction (AF) and wearing (AW). The additive is mixable with common synthetic and semi-synthetic emulsions, thus significantly improving their properties. Low dilution ratio: 0.3 – 2%.

NanoLub® is based on a unique patented technology using multi-layer nano-fullerene particles with solid tungsten disulfide (WS₂). These unique multi-layer IF-WS₂ nano-marbles are known for their outstanding thermal stability (-273 °C to +500 °C), shock pressure (5,076,000 PSI), and pressure (4,263,000 PSI), thus making them universal under extreme conditions, including high and ultra-low temperatures, high pressure and vacuum, high load, high rotating speed and corrosion resistance.

Given their size (50-200 nm) and morphology, IF-WS₂ nano-particles easily fill in all metal projections (scratches, micro-cracks, micro-fissures...), while having excellent anti-wear properties. At high loads (<1 GPa), the layers are separated from the marbles and they apply fine protective WS₂ monolayer on the metal surface, which decreases friction and wear between the metals.



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