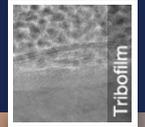
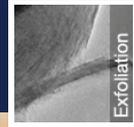
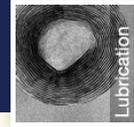


# NanoLub® MFW-3300 AW/AF/EP

water-dilutable metallurgical (emulsion) liquid



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 the lifetime of tools
-  More quality machining
-  Do not cause skin diseases
-  Not subject to rotting



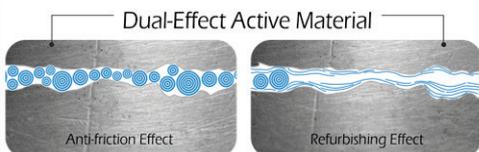
NanoLub® MFW AW/AF/EP is fully formulated metallurgical liquid on a very strong tungsten disulfide (WS<sub>2</sub>) basis. Harmless and non-toxic closed particles according to the OECD protocols. Does not contain chlorine, boron, formaldehyde or zinc. Furthermore, it does not contain critical amines, such as monoethanolamine and dicyclohexylamine.

NanoLub® MFW is a specially developed metallurgical liquid for wear reduction of tools during machining in the field of civil engineering. Suitable applications: turning, milling, drilling, cutting, threads forming and rolling, grinding, shaping... Mainly in places that focus on production performance and economics. A NanoLub® MFW 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 is better (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). It can be used only with water or it can be mixed with common synthetic and semi-synthetic emulsions, thus significantly improving their parameters. Low dilution ratio: 0.5 – 3%.

NanoLub® is based on a unique patented technology using multi-layer nano-fullerene particles with solid tungsten disulfide (WS<sub>2</sub>). These unique multi-layer IF-WS<sub>2</sub> 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-WS<sub>2</sub> 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 WS<sub>2</sub> monolayer on the metal surface, which decreases friction and wear between the metals.



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