

IW-5000

AW/AF/EP Water Based Additive

Low Friction, heat resistant, wear-resistant zero-oil additive based on inorganic nanostructured fullerene-like tungsten disulfide (IF-WS₂). It offers unmatched anti-friction and surface smoothness benefits to cutting fluids and metal forming materials.

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IF-WS₂ Formulated additive maintains enhanced performance and effective lubricating properties in extreme conditions and temperatures, where other lubricants fail. May be used to formulate synthetic, semi-synthetic, emulsion MWF or any other water-miscible lubricating fluid.

Benefits

- Superior Anti-Friction (AF), Anti-Wear (AW) and Extreme Pressure (EP) properties
- Strong affinity for metallic surfaces
- Exceptional load carrying capacity
- Excellent cooling capacity
- Oil-free
- Non-flammable
- Non-toxic: Chlorine-free, Phosphorus-free, Boron-free, Sulfur-free

Format and Packaging

- Water Concentrate
- Containers:







Technical Specs

Color	Treat Rate	Density		4 Ball Wear for 2%	4 Ball CoF for 2%	Health
		at 77°F	at 25°C	IW-5000 in H₂O	IW-5000 in H₂O	neaith
Dark Gray	1% – 10% by weight	12.5-14.5 lb/gal	1.50-1.74 g/ml	0.76 mm	0.072	Non-toxic Non-hazardous

Industries

- Metalworking fluids
- Non-flammable water-soluble lubricants
- Coolants

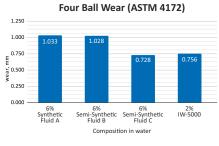
- Fire resistant hydraulic fluids
- Drilling fluids
- Chain and other industrial lubricants

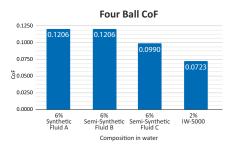
IW-5000

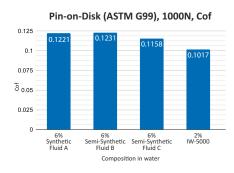
How to Use

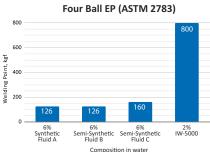
- IW-5000 can be added to water, Isopropyl alcohol or water-based products (PAG)
- Agitate before use
- May require stabilization (depends on the final formulation and other components / additives that are in the formulation)
- Mixing time: 1 hour minimum

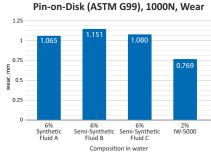
Proven Results

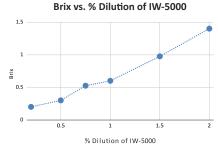




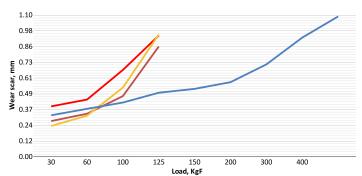












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Made in Israel

1 Shidlovsky St., P.O. 13294 Argaman Complex Industrial Zone Yavne 8122101, Israel +972-8-933-4088 | info@apnano.com

www.nisusacorp.com

