



IF-WS₂

IW-4100

AW/AF/EP Water Based Additive



High performing Anti-Wear, Anti-Friction and Extreme Pressure water based additive. Use for metalworking and non flammable water soluble lubricants with superior cooling properties. This additive is based on IF-WS₂ dispersed solids with polymeric surfactants, that in addition to EP/AW/AF properties will provide surface binding and adhesion.


Benefits

- Superior Extreme Pressure protection. Very low wear even under high load
- Improves heat transfer properties of water by up to 20%
- Can be used to formulate synthetic, semi-synthetic, emulsion MWF or any other water miscible lubricating fluid
- Safe, does not contain chlorinated paraffins
- Reduce coefficient of friction
- Can be used from low to high temperature
- Will not smoke
- Typical treat rates (depending on targeted specifications):
 - Finished lubricant 0.25% – 5% by weight
 - MWF concentrates: 4% – 50%

Format and Packaging


- Water Concentrate
- Containers:

 **Pail**
Vol: 20 L / 5 Gal
Net: 22 kg / 48 Lb

 **Drum**
Vol: 200 L / 55 Gal
Net: 220 kg / 485 Lb

 **IBC**
Vol: 1000 L / 275 Gal
Net: 1100 kg / 2425 Lb

Technical Specs

Color	Treat Rate		Density		Health	Safety
	Finished lubricant	MWF concentrates	at 77°F	at 25°C		
 Black	0.25% – 5% by weight	4% – 50% by weight	8.500-10.500 lb/gal	1.020-1.260 g/ml	Non-toxic close cage particles as per OECD protocols	REACH Compliant



IF-WS₂

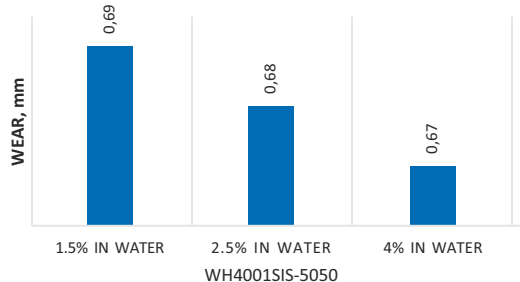
IW-4100

How to Use

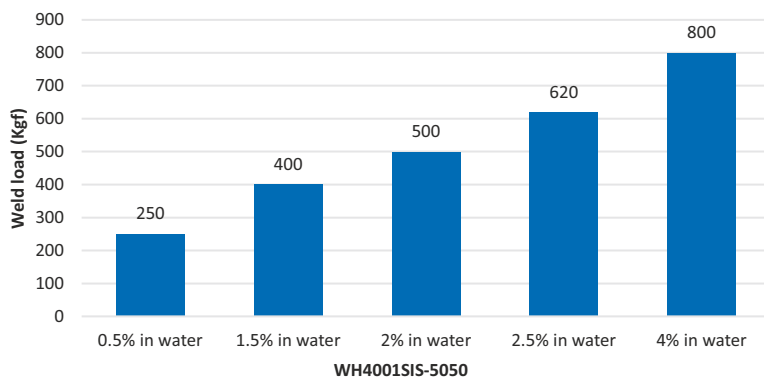
- Add to distilled water or water based product (PAG)
- Mix before use. Mixing time: 1 hour minimum
- May require stabilization. Depends on final formulation and other components/ additives that are in the formulation.
- Avoid using sodium o-phenylphenate base biocides with corrosion inhibitor Sebacic acid in same formulation with IF-WS₂ IW-4000. It may cause instability of particles

Proven Results

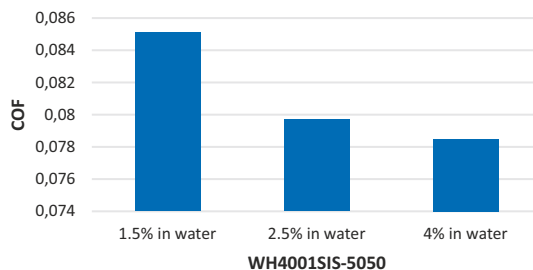
FOUR BALL WEAR (ASTM D 4172)



Four Ball EP (ASTM D 2783)

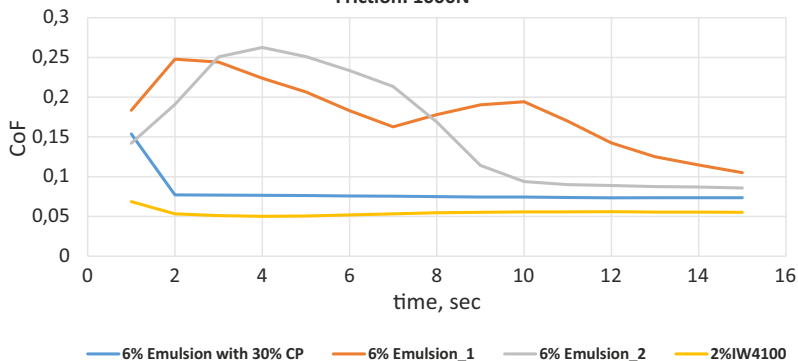


COF



ASTM G99 (ball on disc)

Friction. 1000N



Disclaimer

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