

ADDITIVES FOR METAL WORKING FLUIDS

ESTER LUBRICANTS : BASE FLUIDS /LUBRICITY ADDITIVES / ESTERS

Product Name	Chemical name	Application
QUALIMUL 90	Sorbitan mono oleate	Emulsifier
QUALILUB 108181	2-Ethyl hexyl Oleate	Lubricant base stock
QUALILUB 11318	Isotridecyl stearate	Lubricant base stock
QUALILUB G 103181	Glycerin mono oleate	Emulsifier & Synthetic lubricant base stock
QUALILUB G 303181	Glycerin tri oleate	Emulsifier & Synthetic lubricant base stock
QUALILUB 205181	Neopentyl glycol dioleate	Synthetic lubricant base stock
QUALILUB 306181	Trimethalol Propane trioleate	Synthetic lubricant base stock for Hydraulic oil (ISO VG 48)
QUALILUB 405181	Pentaerythritol tetraoleate	Synthetic lubricant base stock for Hydraulic oil (ISO VG 68)
QUALILUB 30612	Trimethalol propane tricocoate	Synthetic lubricant base stock

PHOSPHATE ESTERS

MULTIFUNCTIONAL ADDITIVES AS EP/Anti-wear

Product Name	Chemical name	Application
QUALIPHOS E 30410	Synthetic alcohol ethoxylate phosphate ester.	Excellent aluminum corrosion inhibition property for different aluminum alloys. Good iron/steel corrosion inhibition. Good EP/AW properties. Good emulsification properties
QUALIPHOS E 30606	Synthetic alcohol ethoxylate phosphate ester.	Excellent aluminum corrosion inhibition property for different aluminum alloys. Good iron/steel corrosion inhibition. Good EP/AW properties. Good emulsification properties
QUALIPHOS A 80026	Synthetic alcohol phosphate ester.	High phosphorous content, good anticorrosion performance when neutralized with amines in pure oil, emulsion & semisynthetic formulations; Good anti-pitting performance in gear oil.
QUALIPHOS E 80220	Synthetic alcohol ethoxylate phosphate ester.	Good wettability, cleaning property; good EP/AW property.
QUALIPHOS E 90411	Synthetic alcohol ethoxylate phosphate ester.	Extreme low surface tension used in water expandable, synthetic & cleaning formulations.
QUALIPHOS E 20410	Fatty alcohol ethoxylate phosphate ester.	Extremely good anti corrosion & staining inhibition properties for all kinds of aluminum alloys. Good EP/AW properties.
QUALIPHOS E 70314	Fatty alcohol ethoxylate phosphate ester.	Excellent EP/AW & anticorrosion performance. Good synergy with sulfur additives; used in rolling oil, hydraulic oil, & cutting oil.
QUALIPHOS E 810508	Fatty alcohol ethoxylate phosphate ester.	Anti-wear & extreme pressure additive for both neat oils & water expandable formulations. Good emulsification & corrosion inhibition performance.
QUALIPHOS E 60710	Phenol ethoxylate phosphate ester.	Extremely low foam, good EP/AW performance in synthetic formulations.
QUALIPHOS 248	Amine neutralized phosphate	Good EP/AW performance for aluminum surfaces, Excellent corrosion inhibitor for neat oils.

CORROSION INHIBITOR

Product Name	Chemical name	Application
QUALIZOLINE O	ALKYL IMIDAZOLINE	multifunctional additive: corrosion inhibitor, dewatering agent and emulsifier for lubricants
QUALICOR BE	AMINE BORATE	Suitable for use in water-miscible metalworking fluids and temporary corrosion protection applications.
QUALIMUL OD	OLEIC DIETHANOLAMIDE	Oil soluble water dispersible corrosion inhibitor.

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