

Archine Syntrend MWF-34

Metalworking Fluid

Product Description

Archine Syntrend MWF-34 is a polyalkylene glycol lubricant based product that provides excellent hydrodynamic and extreme pressure lubrication. Since MWF-34 is a complete lubricity package around which effective synthetic metalworking fluids can be formulated, it does not require the addition of lubricity modifiers, such as fatty acids, to be effective. MWF-34 exhibits inverse solubility and is thus able to provide hydrodynamic and extreme pressure lubrication at low concentrations in water. Heat generated at the point of cut causes MWF-34 to separate out of solution, forming a thin, concentrated film of lubricant on the tool and workpiece surfaces. This film provides excellent lubricity. MWF-34 contains no chlorine or sulfur based additives.

Archine Syntrend MWF-34 is designed to provide long-term, trouble-free service in recirculating central coolant systems. MWF-34 is stable and usable in hard water. It resists foaming and remains fluid to prevent the buildup of gummy or tacky residues.

Typical Physical Properties

Form	Clear liquid
Appearance	Yellow to light brown
Viscosity 37.8°C, cSt	28.1-38.9
Viscosity at 100°F	130-180sus
Alkalinity MEQ/g	2.10-2.50
Weight per Gallon at 20°C	9.036 lbs/gal
Specific Gravity at 20/20°C	1.086
Flash Point, Closed Cup	110°F (43°C)
Flash Point, Open Cup	200°F (93°C)

The physical property data listed are considered to be typical properties, not specifications

Corrosion Protection

Archine Syntrend MWF-34 contains amine functionality that contributes to the rust protection of cast iron and steel. MWF-34 contributes respectable rust inhibition in hard waters. Like any system, however, it is more effective with soft or treated waters. **Archine Syntrend MWF-34** should be combined with a supplemental nonnitrite corrosion inhibitor to develop maximum protection. MWF-34 is non-staining to common nonferrous metals and is suitable in lubricants intended for copper or aluminum alloys.

Environmental Acceptability

Archine Syntrend MWF-34 is not expected to contain sulfur, chlorine, inorganic phosphate, oil, or nitrites. However, since MWF-34 contains amine functionalities, it should not be used with nitrites.

Distributor Wanted

Shanghai PingYiao Trading CO., Ltd.

Tel: 86-21-64705533

Address: Xuhui District, Shanghai Caoxi Yinhai Building, A1207 Room, No. 250

Telephone helpline: (86)15900706965

Fax: 86-21-64705533-209

Website: www.pingyiao.com

E-mail: info@pingyiao.com

Suggested Starting Formulations – Cutting Fluid

Archine Syntrend MWF-34	30%
Nonnitrite Corrosion Inhibitor	10-20%
Triethanolamine	5-10%
Biocide	recommended by manufacturer
Water	Balance

Dilute 10:1 – 50:1 depending on the severity of the operation

Suggested Starting Formulations – Grinding Fluid

Archine Syntrend MWF-34	10-15%
Nonnitrite Corrosion Inhibitor	10-15%
Triethanolamine	5-10%
Biocide	recommended by manufacturer
Water	Balance

Dilute 10:1 – 50:1 depending on the severity of the operation

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