



VANGUARD 3000

METALWORKING FLUID FOR SUPER HIGH PRESSURE MACHINES

Description

Vanguard 3000 is the next generation of metalworking fluids, designed for SUPER high pressure coolant applications. The product is found in systems with pistons and positive displacement pumps that increase coolant pressure EXCEEDING 2000 psi. This product contains NO DEFOAMER, and will not be removed by filters of any micron size. It's versatility enables it to be used in virtually all machining applications and in all types of machines.

Vanguard 3000 has a sulfonate free emulsifier package that provides exceptional stability even in high pressure systems. This product is often found displacing low foaming synthetic formulations with resulting superior performance and machine protection.

Vanguard 3000 provides "soluble-oil" performance with sump stability that approaches that of a synthetic product. The product is non-irritating to workers' skin and will not cause dermatitis issues.

Vanguard 3000 provides excellent rust protection due to a proprietary manufactured tri-phase corrosion inhibitor package.

Features & Benefits

- Designed for high pressure machining systems
- WILL NOT FOAM AT ANY PRESSURE
 - Extended tool life with increased production rates
 - Best in class resistance to bacteria growth
 - Exceptional tramp oil rejection
 - Outstanding surface finish
 - Non-irritating to operators' skin

Health & Safety

See the most recent MSDS which is available directly from Precision Fluids, your local salesman, or authorized distributor. Precision Fluids uses only raw materials not listed as carcinogenic by IRAC.

Physical Data

Appearance:	Translucent Blue
Diluted Appearance:	Milky Light Blue
Solubility	Water
Odor:	Mild Industrial
Specific Gravity:	0.97
Concentrate pH:	9.3
pH, 5 % dilution:	9.0
Freeze/Thaw Cycles:	Passed 3x

Application & Usage

Precision Fluids recommends using our Super Green cleaner before adding Vanguard 3000 to a machine.

The recommended concentration for Vanguard 3000 is 5-8% for optimum results. However, results for any operation can only be determined through testing.

Maintaining the coolant at its optimum concentration is achieved through daily refractive index checking.

No special precautions are necessary with respect to seals or valves.

Refractive Index Monitoring (1.4x multiplier)

Percent	Ratio	Refractometer Reading
5	19 to 1	3.6
10	9 to 1	7.2
15	6 to 1	10.8
20	4 to 1	14.4

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