

FLOC 90 Settling Aid

FLOC 90 is a high molecular weight, polymer based flocculant that exhibits a high degree of cationic charge. This charge provides superior flocculation of negatively charged brittle particles (auto glass, flat glass, ceramic, etc), improving the performance of any particle removal system.

Because FLOC 90 reduces the amount of particle buildup, fewer particles are deposited on machinery.

Concentration – Recommended concentration levels are 0.1 to 0.2% for pre-addition solutions. The recommended addition rate of FLOC 90 is 0.25 to 0.5% of coolant system volume.

pH Stability – FLOC 90 has a moderate pH and, therefore, does not have much effect the pH of the coolant system.

Corrosion Control – Unlike some inorganic, strongly acidic flocculants, FLOC 90 is not corrosive to aluminum or ferrous metals found in coolant systems.

Low Operating Cost – FLOC 90 provides superior flocculation at very low dosing levels of 15 to 30 ppm (about 150 to 300 ml/day per 3000 gal coolant system).

Shelf Life – As supplied: 6-9 months; feed solution: 1-3 days.

Health and Safety – FLOC 90 exhibits very low toxicity and does not present any unusual handling or usage problems. Detailed handling information and precautions are listed in the MSDS.

Typical Properties

Appearance	Cloudy, near colorless liquid
Solids Content	40%
Specific Gravity	1.03
Solution pH	5-7
Flash Point	>200°F (93°C) Non- combustible
Viscosity (LVT, spindle #2/ 12rpm)	915 cP

Packaging – FLOC 90 is supplied in 440 lb (200 L) plastic drums and 44 lb (20 L) plastic pails.

Spills – FLOC 90 spills should be contained and disposed of in accordance with local regulations. Discharge of FLOC 90 or solutions of FLOC 90 to waterways should be avoided because some polymeric products can have an adverse effect on the mucous membranes on fish gills. Solutions of FLOC 90 are very slippery.

FLOC 90 in Glass Coolant Systems

1. Determine coolant system volume.
2. Typically, a glass coolant system requires 1-2 gal of dilute FLOC-90 per 1000 gal of coolant capacity, depending on the amount of total suspended glass solids.
3. In a suitable container, add 7 ml of FLOC-90 for every 1 gal of dilute needed for treatment. Then add the balance of water. Use a stand mixer to ensure thorough mixing. If a mixer is not available, add and mix with a strong water flow to disperse FLOC-90 thoroughly.

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4. If mixing 1 gal or less, dilute at the same rate, seal the container and shake well to mix the solution.
5. Add dilute FLOC-90 to the incoming flow of the returning “dirty” coolant. This will help mix and disperse the dilute FLOC-90.

Health	1
Flammability	1
Reactivity	0
Personal Protection	B

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