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Cleaning and Startup Procedures

Safety Precaution: Where appropriate, when working in and around automated equipment, follow Blaser's Lockout / Tagout Program, ISO Document 640.121.

Water Miscible Coolant, all product families.

Pre Clean Out Procedure (best practice)

- Add 1-2% by volume of Blasoclean AF, Art# 29170 to coolant system prior to system clean out. Allow to circulate for 5 - 7 days, while maintaining pH at 9 (most effective is 7 days). Additional Blasoclean AF may need to be added to the coolant system in order to maintain pH over the course of treatment. Additive K1 Art# 29117 may be used as well. Any decant tanks, coalescer, centrifuge, sump suckers, recycling systems, filtration systems, anything that holds, distributes, processes coolant should be evaluated for cleaning with Blasoclean AF.
- In cases where the coolant is highly contaminated (fungus, foul odor, etc.) an addition of bactericide and/or fungicide may be necessary. This should be added at the same time as the initial Blasoclean AF dose.
- Also keep in mind any additional steps that might be "system" specific, in the case of a large central system for instance. Flumes, tanks without conveyors, pits around the machines, especially when coolant is pumped back into the sump. For central distribution systems: overhead piping, distribution tanks.

Clean Out Procedure (best practice)

- Remove old coolant/cleaner mix from tanks, vessels and cavities.
- If Blasoclean AF was not approved for use, it is recommended to clean the machine with a machine cleaner/degreaser per manufacturer's recommendations, after removing the previous coolant.
- Remove any covers and panels on machines, tanks, fluid filters, chillers and air filters.
- Remove filters from filter housings and vacuum out remaining coolant.
- Disconnect all hoses and pipes at both ends and allow draining completely.
- Disconnect and drain/vacuum any remaining coolant inside of chiller unit.
- Scrape off and remove any accumulated chips, swarf and sludge.
- If possible, clean any air handling systems and duct work.
- If possible, it is advised that a steam cleaner and/or pressure washer is used.
- Replace all panels, hose connections, pipe fittings, ducts and brackets. Tighten all connections.

Rinse Cycle (best practice)

- After pumping out all of the old coolant/cleaner, refill system with a minimum amount of rinse coolant at 1-2% concentrate by volume. Circulate for 30 minutes.
- Evaluate the rinse coolant, if it is extremely dirty, it is recommended to remove and repeat the rinsing process.
- When removing the rinse coolant, try to vacuum any floating oil/debris on top of the sump first, rather than let it stick to the side walls of the sump as the fluid level lowers.

Startup Procedure (best practice)

- Install new filters/filter paper.
- Refill system to the concentration level recommended by your Blaser representative.
- Check for any leaks.
- Startup system; ensure that the system is running properly while catching the first few gallons from the coolant nozzles.
- If there is any doubt as to the thoroughness of the cleaning procedure, a 1/2 to 1% dose of Blasoclean AF can be added to the sump/system and left in.

Straight Oil, all product families.

Note: never use aqueous based cleaners or solvent of any kind to clean machines or central systems.

Pre Clean Out Procedure (best practice)

- Any foreign oil mixed with Blaser oils have shown to increase the tendency for air entrainment; therefore the machines, any auxiliaries (filters, chillers, piping) should be thoroughly cleaned and removed.
- For extremely fouled and/or larger systems, Blaser Swisslube highly recommends a subsequent flushing with Rinse Oil art. # 3155. This flushing of the system will dilute any residual remaining oil, thus ensuring optimal startup conditions. Please discuss with your Blaser representative.
- Also keep in mind any additional steps that might be “system” specific, in the case of a large central system or grinding filtration system for instance.

Clean Out Procedure (best practice)

- Remove old oil from tanks, vessels and cavities.
- Remove any covers and panels on machines, tanks, fluid filters, chillers and air filters.
- Remove filters from filter housings and vacuum out remaining oil. Disconnect all hoses and pipes at both ends and allow draining completely.
- Disconnect and drain/vacuum any remaining oil inside of chiller unit.
- Scrape off and remove any accumulated chips, swarf and sludge.
- If possible, clean any air handling systems and duct work.

- Mechanically clean the sump/machine with a rag and absorb as much oil as you can.
- Replace all panels, hose connections, pipe fittings, ducts and brackets. Tighten all connections.

Rinse Cycle (best practice, where applicable)

- Fill system with Rinse Oil and let it circulate in the machine for about 2 hours. Flushing the system will ensure any remaining oil is removed.
- The Rinse Oil should be totally removed and all components drained and vacuumed out as per above.
- Based on the contamination level, Rinse Oil can be saved and reused in the future up to 4 times.

Startup Procedure (best practice)

- Install new filters/filter paper.
- Fill system with new oil.
- Check for any leaks.
- Startup system; ensure that the system is running properly while catching the first few gallons from the coolant nozzles.