MAK® LUBRICANTS

MAKoolGuard

Advanced Coolant Care. Assured Performance.

Enhance the Productivity

of your **Machine Shop** with our

Coolant Management Solutions

In today's advanced manufacturing landscape, **proactive coolant management isn't just a good practice — it's a competitive advantage.** Inadequate coolant control results in premature tool wear, inconsistent surface finishes, unscheduled downtime, and escalating waste management costs. That's why leading manufacturers across the globe are embracing **intelligent, data-driven coolant solutions** to optimise performance, ensure process consistency, and reduce total operating costs.

MAKoolGuard is our end-to-end coolant management system, engineered to bring **precision, cleanliness, and efficiency** to every stage of your metalworking operations – empowering your shop floor with the same reliability and innovation trusted by global industry leaders.

MAK® LUBRICANT SOLUTIONS

MAK® makes it possible.

Why Coolant Management Matters

Water-soluble metalworking fluids are vital to machining, but their performance declines without proper monitoring. With ***MAKoolGuard***, you benefit from:

- Extended Tool and Coolant Life
- Improved Surface Finish and Dimensional Accuracy
- Lower Downtime and Maintenance Costs
- Safer, Cleaner, and More Compliant Work Environments
- Reduced Coolant Waste and Disposal Liabilities

What MAKoolGuard Delivers

Initial Assessment & System Setup

- **Coolant Type Selection:** Soluble, Semi-synthetic, or Synthetic, based on materials, machining intensity, and water quality.
- **System Audit:** Understand machine condition, sump design, filtration, and historical issues.
- **Set Coolant Parameters:** Determine optimal coolant concentration, pH, etc.

Routine Monitoring and On-Site Testing

- **Coolant Concentration Testing:** Measure the concentration of the coolant to ensure it is within the optimal range.
- **Contamination Monitoring:** Regularly check for contaminants such as dirt, metal particles, oil, or biological growth.
- **pH Level Testing:** Ensure the coolant's pH is maintained within the recommended range.
- **Microbial Growth Monitoring:** Test for the presence of bacteria or fungi that can cause the coolant to spoil.

Corrective and Preventive Actions

- Concentration adjustment if the coolant concentration is too low or too high
- Periodic cleaning of filters to remove particles and contaminants
- pH boosters and Biocide Treatment as required
- Remove tramp oil using skimmers or separators.
- Periodically top up the coolant system to ensure proper levels
- Coolant replacement, when it becomes too contaminated or when it no longer meets performance standards.

Documentation, Diagnostics & Reporting

- **Log Monitoring Data:** Maintain records of coolant tests, concentrations, adjustments, and maintenance activities to track the condition over time.
- **Analyse Trends:** Review historical data to identify patterns of coolant deterioration or contamination and suggestion on improving the maintenance strategy accordingly.
- **Report to Stakeholders:** Provide regular updates on coolant health, performance, and actions taken to management

Continuous Improvement & Training

- **Optimise Coolant Usage:** Continuously analyse coolant performance and make adjustments to reduce waste and maximise coolant life.
- **Staff Training:** Train maintenance teams on best practices for coolant management, ensuring they understand how to properly monitor and maintain the coolant system.
- Recommendation of equipment upgrades for automatic mixing, filtration, and waste recovery.

Ready to Transform Your Coolant Strategy?

Partner with MAK Lubricants.

Let ***MAKoolGuard*** take your productivity, precision, and profitability to the next level.

Scan QR

1800 22 4344

MAKcustomercare2@bharatpetroleum.in

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