



Pearl-Z Bactericide-Free Metalworking Fluids

Safety and Performance

- **Bactericide-Free Odor Control**
- **Extend Tool Life and Maintain Finish**
- **Reduce Fluid Consumption**
- **Reduce Maintenance and Protect Parts**

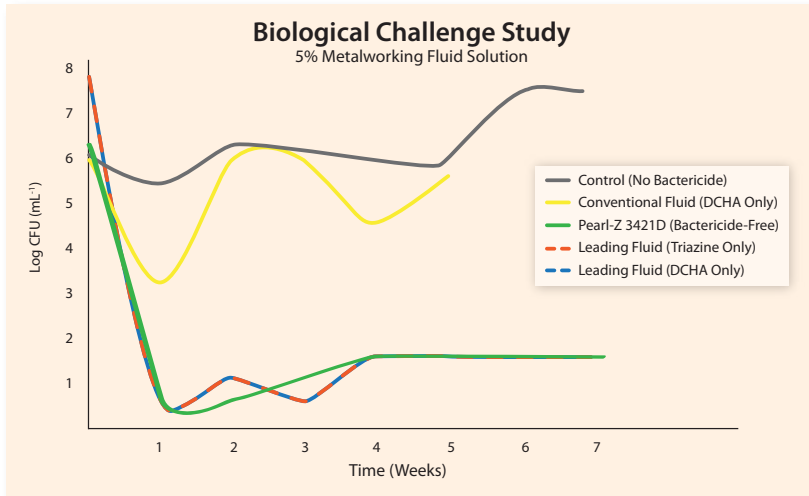
Pearl-Z Improves Your Process!

Bactericide-Free Odor Control

For decades, metalworking fluids have relied on secondary amine technology to control biological growth and odor. Pearl-Z is bactericide-free, allowing you to use a fluid without the Health, Safety and Environmental concerns associated with these additives.

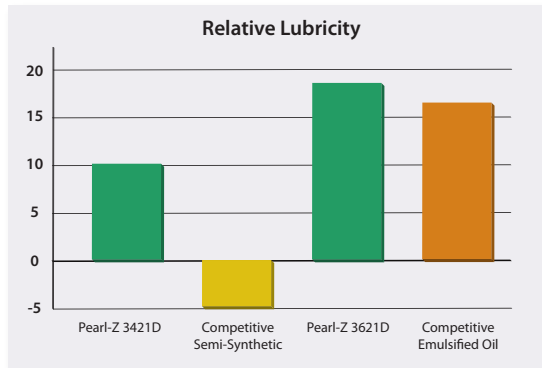
Pearl-Z fluids will improve your process by:

- Resisting bacteria, mold and fungus
- Remaining clean and odor-free
- Reducing additives



Pearl-Z minimizes biological growth which cause unpleasant odor, poor stability and poor performance.

Extend Tool Life and Maintain Finish



Pearl-Z's microemulsion enables maximum surface contact between the tool and work piece. The increased lubricity results in higher tool life when compared to other leading semi-synthetic and emulsifiable oil fluids.

Pearl-Z fluids outperform leading fluids without the use of bactericides.

Reduce Fluid Consumption

- Reduce fluid carry-off on machined parts and chips
- Drop fines quickly, aiding in filtration
- Minimize misting
- Split easily from hydraulic oils

DuBois Chemicals

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Reduce Maintenance and Protect Parts

Hard Water Stability

Pearl-Z microemulsion technology is extremely hard water stable. Improved stability benefits your process by:

- Minimizing depletion of additives
- Reducing the formation of hard water soap residues

Low Foam

Pearl-Z fluids are low foaming, even in high pressure. Low foam fluids benefit your process by:

- Reducing pump cavitation, improving coolant flow to tool
- Extending tool life and finish
- Preventing damage to the recirculating pump

Corrosion Protection and Metal Safety

Pearl-Z fluids are safe to use on all metals and leave a light but very effective protective film on parts and machine surfaces to prevent corrosion.

Pearl-Z
3421D

Competitive
DCHA
Emulsified
Oil



Iron Chip

Aluminum
Stain

International Standard Organization Certifications:

- ISO-9001:2008 – Highest Level of ISO Quality System
- ISO-14001 – Environmental Management System
- ISO/IEC-17025 – Laboratory Testing Accreditation