

CHALLENGE 300-CR

SYNTHETIC GENERATING COOLANT FOR PLASTIC & GLASS LENSES

CHALLENGE 300-CR is a synthetic formulation developed to optimize removal rate and surface finish in generating or edging processes involving plastic (CR39, high-index, polycarbonate) and glass ophthalmic lenses. This versatile usage produces significant cost savings. The product's exceptional heat transfer characteristics also ensure prolonged diamond life. CHALLENGE 300-CR provides rapid settling and is compatible with all filtration systems. CHALLENGE 300-CR eliminates the problem of plastic swarf floating on the top of the coolant.

Benefits:

- Versatile – for both plastic and glass lenses
- Better surface finishes
- Faster removal rates
- Problem-free filtration with all systems
- Extended diamond life
- Operator acceptance
- Low foaming
- Operator acceptance

Typical Properties:

pH	9.6
Conductivity Ms	1.20
Specific Gravity	1.02

Directions:

CHALLENGE 300-CR is designed for use at economical dilution ratios and is equally effective in hard and soft water. For optimum results, follow the dilution ratios listed below, making production specific adjustments as needed:

Coolant tanks with NO filtration	25:1
Large (>100g) coolant tanks with hydrocyclone filtration	30:1
Small coolant tanks (<100g) with hydrocyclone filtration	35:1

Maintaining dilution ratios with a hand-held refractometer is recommended. A pH meter is also useful. Develop production-specific scales by obtaining accurately measured samples of a properly diluted mixture that corresponds to use. Maintain a higher concentration for recirculating, filtered coolant systems.

Additional Information:

CHALLENGE Products are available in 5-gallon pails and 55-gallon drums, F.O.B. Bethel, Connecticut, and also include: grinding fluids, sawing fluids, lapping/polishing slurry additives, rinse/wet storage additives and ultrasonic/megasonic detergents. Safety Data Sheets available upon request.