

# OPTICAL CLEANER (OC)

## Concentrated Cleaning Formula

### APPLICATIONS AND USES

Optical Cleaner (OC) is a concentrated, broad spectrum cleaning solution which is an alkaline, non-foaming, liquid detergent specially formulated to remove a variety of soils normally encountered in the optical, glass and lens manufacturing industry.

A blend of liquid non-ionic surfactants and detergents, the superior detergent properties, wetting capabilities and free rinsing properties of OC solution combine to provide an exceptional cleaner for removing difficult soils and contaminants. It removes general soils, fingerprints, cerium oxide, pitch, and blocking waxes from optical lenses. It is very effective in removing polishing compounds from glass and optical surfaces prior to deposition of coatings.

### APPLICATIONS PROCEDURES

OC solution is mixed easily with cold or hot water in a concentration of 7-10% by volume. It can be used over a temperature range from 130°F to 180°F (82°C) in suitable commercial and industrial cleaning tanks. Higher temperatures are required for waxy soil removal.

For optimum cleaning, OC should be operated at recommended temperatures. Cleaning time is dictated by the quantity and nature of the soil. Operating OC below the recommended concentrations, temperatures, or time will generally result in poor cleaner performance, characterized by cloudiness and water breaks. Operating OC above the recommended parameters may lead to component metal attack or cause the surfactants to separate from the solution causing poor cleaning. It is imperative that the solution be allowed to "degas" at operating temperature for a minimum of 10 minutes prior to placing the parts into the cleaning solution. It is best if ultrasonic energy is applied during this time to enhance degassing. Thorough rinsing in one step must be undertaken for removal of cleaning solution. As with any process involving water, drying must be included as the final step.

The selection and use of the proper ultrasonic cleaning equipment and component fixturing will influence the cleaning efficiency and performance of OC.

### CHEMICAL CHARACTERISTICS

Chemical Composition	Blend of liquid, non-ionic alkaline Surfactants and detergents
Flash Point	None
Recommended Diluent	Water
Biodegradable	Yes
Normal Use Concentration	7-10% by volume
Normal Use Temperature	130-180°F
PH at Rinse Temperature	9.8
Rinsability	Good

**See the MSDS for further information**

**Crystal Electronics Inc**  
UN 2 – 1251 Gorham St. Newmarket, ON L3Y 8Y6  
Toll free: 1 866-669-9728      tel: 905 953-9129