

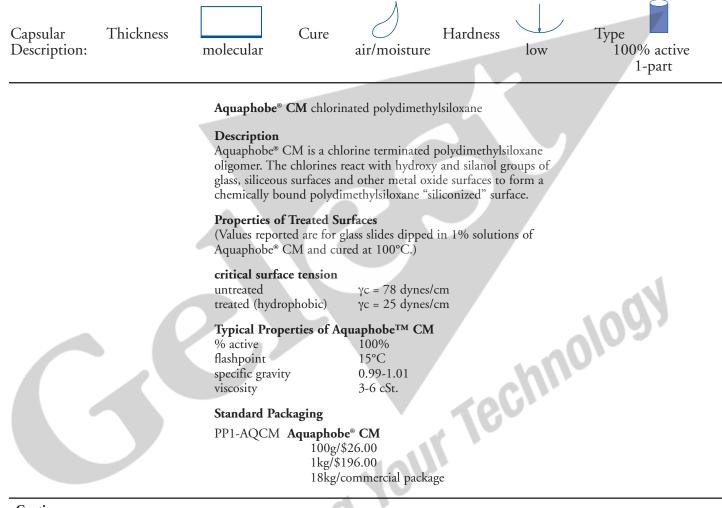
Gelest Aquaphobe® CM

Hydrophobic Treatments For Glass and Ceramics

Features: Provides water-repellent silicone, molecular films with high durability for glass and vitreous surfaces. Acidic byproducts remove surface alkali from soda-lime glass substrates.

Applications:

laboratory glassware- improves drainage, reduce breakage. **optical fibers**- reduces moisture adsorption and surface fracture. **clinical analysis**- reduces protein and lipid adsorption. (Not for food or drug use.) **glass plate and glazing**- provides high water contact angle, facilitate forced air blow-off.



Cautions

Aquaphobe[®] is a mixture of corrosive chlorinated polysiloxanes. Avoid skin and eye contact. Use in a well ventilated area. Wear gloves and safety glasses.

Application Methods

1. Aquaphobe[®] coatings are most frequently applied as a 2-10% solution in dry solvents such as hexane, methylene chloride or toluene. Articles are dipped or wiped. Articles can be cured by air drying for 24 hours at conditions of <75% relative humidity. Heat curing at 110°C for 15-20 minutes in an exhausted oven provides the most effective surface treatment.

2. A master batch of Aquaphobe[®] in isopropanol or ethanol is desirable when large areas are to be treated and the acidic byproducts are difficult to handle. A 0.5-2.0% solution in isopropanol is prepared in a well-ventilated area. Hydrogen chloride fumes issue during this stage. Acidic character is reduced for subsequent surface treatment.

Over treatment results in a cloudy surface. The concentration should be reduced to eliminate this effect.

(215) 547-1015 FAX: (215) 547-2484 www.gelest.com