

# TECHNICAL DATA SHEET

<b>Product:</b>	Alpha-Dent® Glass Ionomer Cement
<b>Product Description:</b>	Alpha-Dent® Glass Ionomer Cement is specially formulated for superior strength, resistance to dissolution, and oral retention. It is impervious to oral fluids, and thus permanent under oral conditions. It adheres to dentin, enamel, plastic and non-precious metals.
<b>Indications for Use:</b>	Permanent cementation of inlays, crowns, bridges, facing, and orthodontic bands or as a base under any filling material.
<b>Appearance:</b>	White fine grit uniform powder. Liquid is a clear colorless to pale yellow viscous solution.
<b>Curing Mechanism:</b>	Self cured by mixing powder and liquid together.
<b>Shelf-Life:</b>	36 months
<b>Main Composition (%w/w):</b>	
	<b>Powder:</b>
	Aluminum Fluoride 30-40
	Silicon Dioxide 25-35
	Aluminum Phosphate 8-16
	Aluminum Oxide 15-20
	Sodium Fluoride < 5
	<b>Liquid:</b>
	Deionized water 40 - 50
	Polyacrylic Acid 35 - 45
	Tartaric Acid < 10
<b>Physical /Mechanical Properties:</b>	
	Film Thickness, µm < 25
	Net Setting Time @ 37 °C, minutes 5.0 - 5.5
	Compressive Strength, MPa, minimum 56.50
	Acid-soluble Lead, mg/kg < 100