



**Technikote Solution Characteristics**  
**Water Soluble Surface Protectant and Temporary Jig Adhesive**

**Physical Properties**

<b>Property</b>	<b>Range</b>	<b>Units</b>	<b>Temperature</b>
Density	1.0-1.3	Gm/cm <sup>3</sup>	25 deg. C
Viscosity	6.5-7.5	Cp	25 deg. C

**Contaminants**

<b>Metallic Element</b>	<b>Symbol</b>	<b>Solution Level</b>
Sodium	Na	<1 PPM
Iron	Fe	<1 PPM
Nickel	Ni	<1 PPM
Zinc	Zn	<1 PPM
Copper	Cu	<1 PPM
Manganese	Mn	<1 PPM
Potassium	K	<1 PPM

**Film Characteristics: Thickness**

<b>Application Method</b>	<b>Rate</b>	<b>Film Thickness</b>
Spinning	4000 rpm / 3000 rpm / 2000 rpm	2300A / 2600 A / 3500 A
Spraying	N/A	>10,000 A
Dipping	N/A	>10,000 A
Brushing	N/A	>10,000 A

Film thickness varies inversely with the square root of the spin speed; lower spin speeds yield thicker films. Custom viscosities available if needed.

**Thermal Properties**

<b>Heat Level</b>	<b>Resultant Effects</b>
Sustained 100 deg. C Heating	Reduced rate of dissolution in water
Sustained 200 deg. C Heating	Decomposition into H <sub>2</sub> O and CO <sub>2</sub>
Sustained 200+ deg. C Heating	Complete Film Removal in Air

### Solubility

<b>Substance</b>	<b>Affect on Film</b>
Trichlorethylene	Non Soluable
Toluene	Non Soluable
Benzine	Non Soluable
Higher Alcohols	Non Soluable
MEK	Non Soluable
Ethanol	Film expansion
Methanol	Film expansion
25 deg. C water	Complete dissolution with no residue
Hot water	Accelerated dissolution
Cold water	Decelerated dissolution
H2O2	Dissolution in presence of strong solution
H2SO4	Dissolution in presence of strong solution
Nitric acid	Dissolution in presence of strong solution

### Miscellaneous Properties

<b>Description</b>	<b>Property / Characteristic</b>
Index of Refraction	Refractory index of 1.5
Adhesion	Most Surfaces
Shelf Life	Five years
Safety	Non Flammable / Non Hazardous

**Questech Services Corporation**  
2201 Executive Drive  
Garland, Texas 75041 USA

**800-736-1664**  
**972-278-8006**  
**Fax: 972-278-8036**

**e-mail: sales@questlaser.com**  
**Website: www.questlaser.com**