

**FLUID PERFORMANCE TEST**

Fluid Test Report No.: FT-0017

Lubricant Name: "Krytox"-FG 45

Manufacturer: Dupont

Customer: SIG

Application: Bake Ovens

Contact Name: Austin Kozman

Contact Phone: (972)-509-8641

Date: 4/28/2003

Test Date: 4/28/2003

Nozzle used: RMN-IL-NC-00 (REMOTE NOZZLE )

Item #: 570-85949-0000

Injector size:            1/2 Drop   
                                  1 Drop   
                                  2 Drop

Injector configuration:  
Cycle Time: Varied  
Dwell Time: Varied  
Delay Time: Varied

Tubing Length (Ft.): 3 FT 1/8" STEEL & 4FT NYLON

Regulator Pressure (PSI): Varied

Test Temperature  
Ambient   
Heated

Temperature (deg. F): 150, 170, & 200 DEG.

Test Objective: To determine spray pattern & coverage when heated.

Nozzle Gap Size (In.): N/A

Nozzle Orifice Size (In.): 0.046

Spray Distance (In.): 1 "

Spray Width Achieved: 1/4"

**Spray Quality**

	<u>None</u>	<u>Low</u>	<u>Medium</u>	<u>High</u>
Pulse	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spits	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Splatters	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Atomizes	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Overspray	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TEST NOTES**

1.) The spray Quality Results checked above pertain to this fluid heated to 150 deg. F with 30 PSIG. Nozzle air @ 1.1 Sec. Delay & 1.5 Sec Dwell for an overall spray cycle of 2.6 Sec.

2.) The spray Quality Results checked above pertain to this fluid heated to 170 deg. F with 25 PSIG. Nozzle air @ 2.3 Sec. Delay & 2.9 Sec. Dwell for an overall spray cycle of 5.2 Sec.

3.) The spray Quality Results for this fluid heated to 200 deg. F performed well @ 20 PSIG. Nozzle air, 4.7 Sec. Delay & 1.3 Dwell for an overall spray cycle of 6.0 Sec. Although spray Quality was good at this Temp. some fogging was visible not seen @ 150 & 170 Deg. In conclusion as temp. increases air pressure can be reduced & cycle time can be drawn out maintaining same spray pattern . Note: 100 Psig Regulator pressure into Injector stack gives best Inj. Response for this fluid.

Tested By: Mark Aupperle

Sales: \_\_\_\_\_

Engineering: Steve Gorski