

AR226-1646

FC-143

Objective: Determine the fate of FC-143 in the Teflon® process.

Status:

- 90% of FC-143 is absorbed on or incorporated in Teflon®.
- FC-143 is probably decomposed in sintering.
- Tightly bound FC-143 goes to the customer in I product.
- Air samples taken at SM-3 and I process show FC-143 to be < 50 ppb in operator breathing zone.

FC-143 DATA

2200 PPM ADDED TO DISPERSION

<u>PP&R Samples</u>	<u>PPM Level of FC-143 in Liquid Phase</u>
Supernatant Liquid	220
Raw Dispersion - 35% Solids	125
Concentrated Dispersion	180
H ₂ O Control	3000

<u>Teflon® Process</u>	
Wash Reel Water	50
Regeneration Bath	Not Detectable

<u>Air Samples</u>	<u>Approximate Temp. °F</u>	<u>Level of FC-143 ppb</u>
Roll 2	250	< 50 ↓
Roll 11	690 - 700	
Roll 15	680 - 700	
Operations Desk	75	
Induction Dryer Exit	-	
Above Induction Dryer	-	

NOTE: Air samples were taken 18 inches from the face of the machine and 5 feet high.

SPR000556
EID714468

000005

FIGURE 1

TEFLON[®] YARN PROCESS

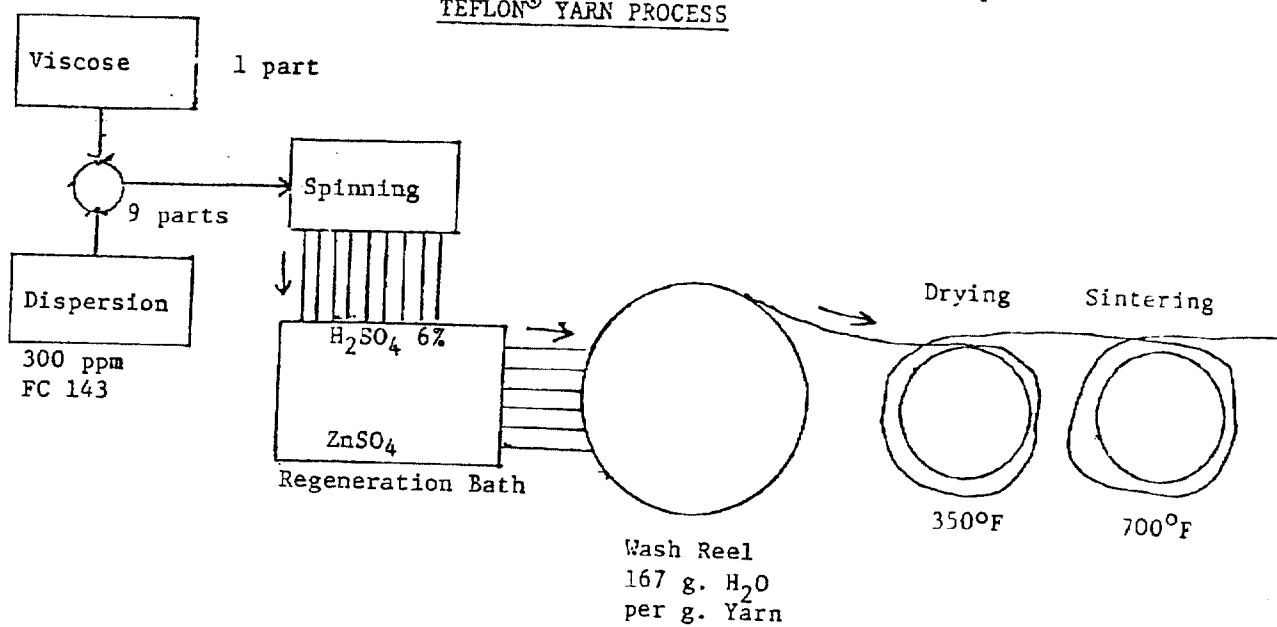


FIGURE 2

"I" YARN PROCESS

