

# Laboratory Testing on Foam Concentrates

## DuPont M-TEC Technical Centre

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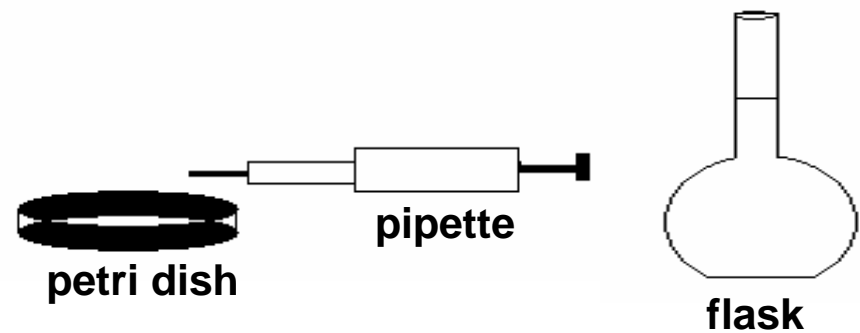


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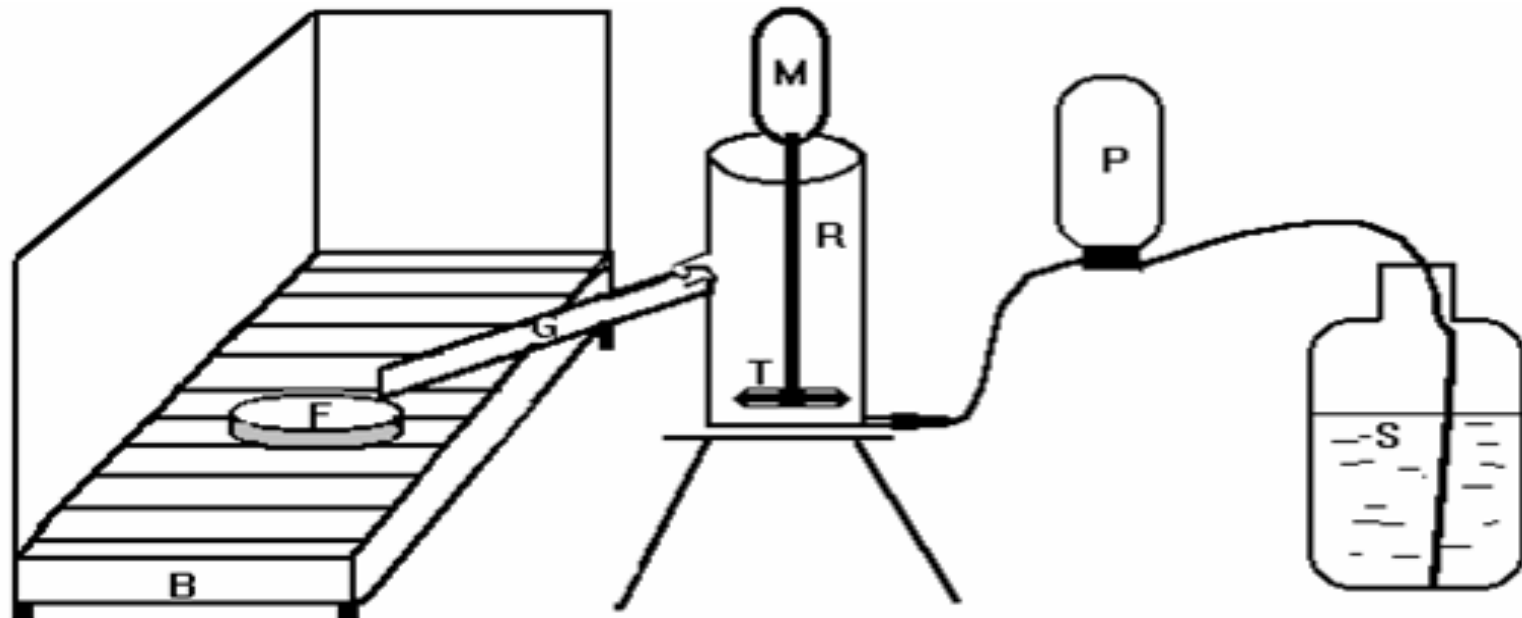
# SPREADING TEST



1. Prepare foam concentrate solution in the flask
2. Pour solvent in petri dish
3. Fill the pipette with 0.5 ml. solution
4. Deposit drops on the surface of the solvent
5. Record time to cover surface



# EXTINCTION TEST



## LEGEND

- F: fire tray
- B: protection tray
- G: foam channel
- M: motor
- T: foam making device
- P: pump
- S: foaming solution

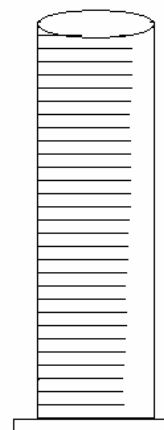
# EXTINCTION TEST



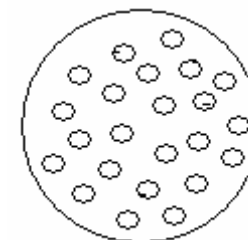
# EXPANSION AND DRAINAGE TEST



1. prepare 100 ml foaming solution
2. introduce perforated disk in graduated cylinder
3. strike up and down 60 times within 60 seconds
4. start stop watch
5. record volume of foam
6. record time for 25 % drainage



1 liter cylinder



rod & disk

# HIGHER TEMPERATURE OF FILM TIGHTNESS



This method measures the temperature above which the AFFF film disappears or become permeable to solvent vapors.



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