

# Therma-Flite

## Screw Heater / Dryer Questionnaire

Name: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: ( ) \_\_\_\_\_ Fax: ( ) \_\_\_\_\_ E-mail: \_\_\_\_\_

How did you learn of Therma-Flite? \_\_\_\_\_

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### Material Specifications

Material processed: \_\_\_\_\_ Volatiles: \_\_\_\_\_

Bulk Density: Initial: \_\_\_\_\_ (lb/ft<sup>3</sup>) Final: \_\_\_\_\_ (lb/ft<sup>3</sup>)

Moisture Content: Initial: \_\_\_\_\_ (% wet by wt.) Final: \_\_\_\_\_ (% wet by wt.)

Specific heat: Solids: \_\_\_\_\_ (Btu/lb° F) Volatiles: \_\_\_\_\_ (Btu/lb° F)

Volatiles' boiling point: \_\_\_\_\_ (°F) Volatiles' latent heat of evaporation: \_\_\_\_\_ (Btu/lb)

Any bound moisture? \_\_\_\_\_ Particle size (min./max.): \_\_\_\_\_

Flow characteristics? \_\_\_\_\_ Angle of Repose: \_\_\_\_\_ (°)

Is the material? Sticky \_\_\_\_\_ Explosive \_\_\_\_\_ Toxic \_\_\_\_\_

Does the material? Melt \_\_\_\_\_ Cake \_\_\_\_\_ Degrade \_\_\_\_\_

Explain: \_\_\_\_\_

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### Process Specifications

Feed rate: \_\_\_\_\_ (lbs/hr) Retention time (max./min) : \_\_\_\_\_ (minutes)

Inlet temperature: \_\_\_\_\_ (°F) Desired discharge temperature: \_\_\_\_\_ (°F)

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### Heating Medium Specifications

Medium: \_\_\_\_\_ (If steam: Superheated \_\_\_\_\_)

Inlet temperature: \_\_\_\_\_ (°F) Discharge temperature: \_\_\_\_\_ (°F)

Flow rate (max.): \_\_\_\_\_ (fluid-GPM, steam-lbs/hr) Pressure (max.): \_\_\_\_\_ (psig)

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### Equipment Specifications

Overall length: \_\_\_\_\_ (ft.) Height: \_\_\_\_\_ (ft.) Width: \_\_\_\_\_ (ft.)

CL-inlet / CL-discharge length: \_\_\_\_\_ (ft.) Angle of inclination: \_\_\_\_\_ (°)

Material of construction: \_\_\_\_\_ Surface finish: \_\_\_\_\_

Code requirements: \_\_\_\_\_ Electrical requirements: \_\_\_\_\_

Will equipment be operated under pressure or vacuum? Explain: \_\_\_\_\_

Other physical constraints: \_\_\_\_\_

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### Other Specifications

Installation environment (indoor / outdoor / explosive...) \_\_\_\_\_

Plant elevation: \_\_\_\_\_ (ft.) Ambient temperature (min. / max.): \_\_\_\_\_ (°)

How is the material currently heated / dried? \_\_\_\_\_

Estimated date of installation: \_\_\_\_\_

Comments: \_\_\_\_\_