
Heat Capacity

Material Flow Solutions, Inc.



A bulk solid is a complex mixture of discrete particles. Both size and type of contacts are used to determine the thermal characteristics of bulk materials. The mixture consistency, temperature, and stress level all affect the thermal properties of materials. Consequently, we measure the thermal properties of bulk materials as a function of stress level after subjecting them to typical segregation that the product may see in the field. This data is used for thermal modeling of equipment and helps us predict energy losses from your equipment.

PRACTICAL APPLICATIONS of *heat capacity* data include, but are not limited to:

- ✿ Predicting day / night process temperatures
- ✿ Predicting drying capacity
- ✿ Predicting moisture migration
- ✿ Predicting energy losses
- ✿ Predicting mechanical/friction melting problems