



SmithHeat™

Mica Band Heaters

COMPOSITION

SmithHeat® Mica Band heaters are very efficient and economical solutions to the heating requirements of many applications. These heaters utilize different types of finest grade mica as it provides excellent electrical insulation at high temperatures and is resistant to moisture. The thickness of each mica layer is carefully selected in order to balance between the insulating characteristics of mica and the ease of heat transfer from the heating core to the machine barrel.

The internal winding is carefully designed to ensure uniform heat distribution throughout the band heater. To maximize the surface-to-surface contact, our mica heaters are carefully rounded and formed to optimize the grip on a machine barrel. Nickel/Chromium resistance wire evenly wound for uniform heat distribution and reliable accuracy.

Mica band heaters can attain a maximum sheath temperature of 900°F, but with different electrical termination styles, clamping mechanisms and ability to accommodate holes and cut-outs. These heaters are successfully used in many applications, but are mostly seen in the plastics industry.

All values are attributes of the used raw materials.

The physical data contained in this table are typical values. They are obtained on test specimens under specific conditions and represent average values of a large number of tests. The results obtained on these tests specimens cannot be applied to finished parts without reservations, as behaviour is influenced by processing and shaping.