ALL-IN MICA Paper

Meeting the demands of production in coreless furnaces means ensuring thermal consistency while protecting the interface between the induction coil and cast refractory crucible.

Induction furnaces come in different sizes and use various refractory materials in their processes. As a result, they will operate in different conditions to achieve the right temperature gradients for their specific purposes. Allied provides a range of mica roll laminates in several grades. Mica laminates in roll form provide superior heat and electrical and slip plane characteristics, making them ideally suited for use in furnaces.

Benefits:

- Versatile and easy to install
- Optimizes sintering conditions, maximizing lining life
- Reduces downtime and maintenance cost
- Withstand temperatures up to 1000°C
- Excellent electrical insulation qualities
- Acts as a vapor barrier against carbon gasses

ALL-IN GM 40 SLIP PLANE .016X42X82' 273 SF

A flexible material made from silicone bonded phlogopite mica paper laminated on one side with closely woven glass fabric. This is an economic grade of induction furnace slip-plane material. Mica provides a smooth slip plane and consequently is usually positioned facing the main refractory lining. The woven glass cloth provides the material with additional mechanical strength and is usually placed against the induction coil.

ALL-IN CM 30 INDUCT SHEET 0.13X40X41' 137SF

A flexible sheet material made from silicone-bonded phlogopite mica paper laminated to a 3 mm layer of ceramic paper. The combination of ceramic and mica paper on one material provides both a thermal and an electrical interface between the induction coil and the refractory material. A considerable saving in application time and effort will be found where in the past, both materials have been used separately. It provides a complete substitute for asbestos mill board.

ALL-IN VAPORSHIELD T-2 .025"X40"X33LF 110 SF

Grade MVM SRP Type 2 is a flexible laminate material supplied in roll form. It is made from 2 thick layers of silicone bonded phlogopite mica paper, but between the layers of mica lies a thin layer of stainless steel foil. The stainless steel foil prevents vapor penetration, but by being positioned within the mica is fully electrically insulated and retains the characteristics of the full slip plane.

ALL-IN MICA COMBI .02X39.37X39.37

A rigid sheet material from silicone-bonded muscovite or phlogopite mica paper. This high temperature board has many applications for both electrical and heat insulation. This material is often used as a parting plane between the inductor and throat faces of channel induction furnaces. It is widely used in domestic appliances and heater manufacture and can easily be punched. A cost effective material with good mechanical strength.

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