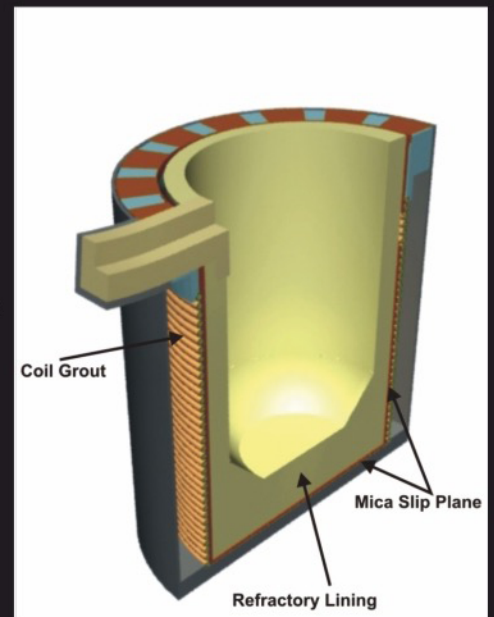


## Mica Slip Plane™

Mica Slip Plane is an electro-thermal flexible composite made up of multiple phlogopite mica laminates and woven glass / ceramic felt bonded along with silicon resin. Mica Slip Plane has a high dielectric strength and a very low thermal conductivity making it a perfect insulation even at high temperatures. Mica Slip Plane is designed specifically for use as a separator between coil grout and refractory lining of a coreless induction furnace. Mica Slip Plane composite provides an excellent dielectric strength protection and high permeability acting as a vapor barrier against harmful carbonizing gases. Mica Slip Plane composite due to its high tensile strength and low coefficient of friction acts as a superior protection against the expansion forces of the refractory lining providing lining stability.

### Benefits

- The best and most preferred slip plane material in the world for coreless induction furnaces.
- With non-existent permeability, the mica reduces the migration of gases resulting from zinc coated steel, carbon etc.
- Smoother Slip Plane of Mica facilitates the movement of working lining during expansion and contraction in coreless induction furnace
- The product's low coefficient of friction makes removal of the spent furnace lining easier than that of micro weave cloth and other ceramic fiber containing products.
- A non-hazardous material which satisfies global safety standards



|                             |                                    |
|-----------------------------|------------------------------------|
| <b>Thickness</b>            | <b>0.40 mm-3.8 mm</b>              |
| <b>Temperature</b>          | <b>1000 deg C</b>                  |
| <b>Supply from Roll</b>     | <b>[950 mm x 25 mtrs]</b>          |
| <b>Thermal Conductivity</b> | <b>~0.04-0.14 W/m<sup>o</sup>K</b> |
| <b>Dielectric Strength</b>  | <b>&gt;12-15 kv/mm</b>             |

# The above data is collected from our tests in work, and does not constitute a specification thereby subjected to variation. No liability shall be implied or assumed form any given data.

### Installation

Mica Slip Plane sheet size can be adjusted by cutting then placed in the furnace where it is pressed smoothly by hand against the induction coil grout. Provided adhesive tape is used to hold the Mica Slip Plane sheets in place and to prevent any infiltration of refractory material. Allow for an overlap of a few centimeters (1 - 2 inches). Heating up Mica Slip Plane sheet up to max 150 deg C for few second's results in improved flexibility for applications requiring optimum conformability.