

## Newform Combi - lining instructions for induction coil furnaces

### General:

*Newform Combi* is an asbestos-free, biologically dissolvable insulation material developed with special consideration to insulation technique of induction coil furnaces. Its main function is to serve as a protection-layer for the induction coil. Other important functions of the insulation are:

- To serve as slip-plane and buffer zone along the boundary between induction coil and crucible in order to prevent thrust and expansion forces, caused by the expansion of the crucible, being exerted on the fixed mounted coil.
- To protect the high-voltage conducting coil from crucible and smelt electrical current by preventing tracking and short circuit.
- To regulate thermal graduation between smelt and coil.



### Construction

*Newform Combi* is a laminate of micanite paper with a layer of ceramic felt (or glasfibre mats - Combi GG) glued together with a thermally resistant binder.



**Properties and delivery modus** please find under separate items.

**Safety Data Sheets** are accessible as pdf-files accordingly

### Advantages

- easy application
- flexible
- Excellent electrical- and thermal insulation properties
- good slip characteristics

## Processing

Generally *Newform Combi* is cut to required size and lined vertically - with an overlap of about 100mm – between the coil and the crucible. It is glued together (overlap and top edge of oven) with special adhesive mounting paste. The waterbased glue allows simple application without residuals on the coil grout.



## Important

The ceramic felt side (white) must be mounted towards the coil and the micanite side towards the crucible. Only when assembled in this manner will you achieve good slip characteristic between the expanding crucible and the fixed coil grout.

