

COGETHERM

COGETHERM is a mica laminate designed for extreme conditions requiring one or more of the following properties. Rigid plates have excellent resistance to heat and even to open flame up to 700 °C (Muscovite) and 1000 °C (Phlogopite) with low thermal conductivity while at the same time offering excellent electrical insulation. Not only does COGETHERM have high resistance to pressure it is impervious to most chemicals, in particular oil and grease. Every day, safety becomes more important in industry, so material properties like asbestos-free, ecological safety and non-toxicity make COGETHERM a unique solution.

The excellent properties of COGETHERM allows usage in a variety of applications (contact Cogebi for details) in the electro-mechanical sector (railway industry, arc chambers), as well as in the thermo-mechanical sector (hot presses, glass industry, steel works, aluminum production, induction furnaces, military, gas distribution).

Cogebi also produces a wide range of tubes based on COGETHERM material (from inner diameter 6 mm and 1 m lenght).

Available in:

sheets 1000x1200 mm, strips, punched pieces, laser cut, water jet, CNC all in thicknesses of 1.5 to 80.0 mm

Four different grades available:

COGETHERM M:

Cogetherm M has the highest resistance to pressure and is the most recommended for complicated cut pieces.

COGETHERM P:

The resistance to pressure of Cogetherm P is less then M and it should be applied only for continuous applications >500 °C.

COGETHERM MC:

Our Muscovite degassed grade has low fume emissions during first application at temperatures >250°C, (available in thickness 1.5-10 mm).

COGETHERM PC:

Our Phlogopite degassed grade has low fume emississions, during first application at temperature >250°C.

	Mica Type	Compress. strength MPa at 20 °C / at 200 °C	Compress. strength MPa Continuous/intermittent	Heat Resistance °C kV/mm at 20/400°C
COGETHERM M	Muscovite	400/250	500/700	25/13
COGETHERM P	Phloghopite	330/240	700/1000	25/13
COGETHERM MC	Muscovite	360/235	500/700	25/13
COGETHERM PC	Phloghopite	310/225	700/1000	25/13

