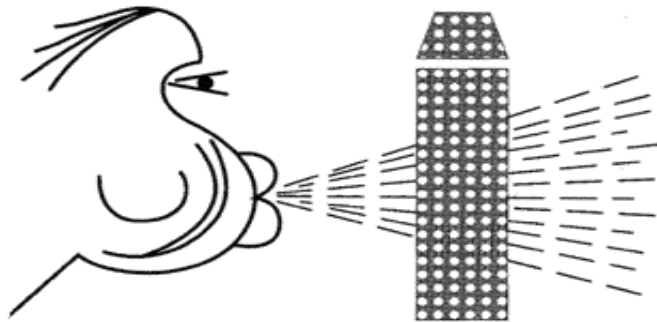


METAPOR® - micro-porous, air permeable materials

METAPOR® is a composite material consisting of two major components. Different granules, such as aluminium or ceramic materials and binders are currently used. The material is air-permeable over the entire surface, because of its micro-porous structure. In contrast to sintered materials, the pores are not closed off after machining.



The numerous advantages are useful in the *Thermoforming* industry as well as for *vacuum clamping* and *air cushion devices*. Design flexibility is enhanced because micro-vents are an integral part of the complete surface. The material's inherent properties eliminate the need to design and manufacture complex venting systems.

METAPOR® is available in square slabs of 500 x 500mm with thickness ranging from 10 – 400mm and slabs of 1000 x 500mm with thicknesses between 15 and 200mm. Larger dimensions up to 3500 x 2000 mm with a maximum weight of 150 kg can be bonded upon request.

For various applications, many different METAPOR® products are available. The products varies primarily in air permeability, pore size and temperature stability.

METAPOR® Products

Product selection Table

Product METAPOR®	Thermoforming Standard + Transparent		Vacuum clamping systems	Air cushion systems	Ceramic Industry	Injection mould and blow mould venting	EPS, EPE, EPP foam moulds	Temperat- ure stability	Available in 500x500mm	Available in 1000x500m m	Air permeability *
	S.	T.									
BF 100 AL	X		X					108°C	X	X	100%
BF 210 AL	X		X					210°C	X	X	100%
HD 100 AL	X	X						108°C	X	X	50%
HD 210 AL	X	X						210°C	X	X	50%
MC 100 AL			X	X				100°C	X		800%
MC 240 AL ^{*2}			X	X		X	X	240°C	X		850%
CE 100 WHITE			X	X	X			100°C	X		100%
CE 170 WHITE			X	X	X			170°C	X		100%
MA 100 BLACK			X	X				100°C	X		100%
ES 240 INOX						X	X	240°C	X		200%

* The benchmarks refer to the air permeability of BF 100 AL.

*2/ MC 200 AL is our dedicated product to resist high pressure steam (up to 120°C steam) for foam moulds.

METAPOR® is a registered trademark of Portec AG., Aadorf / Switzerland

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