



THERMOSTAR® HD 600

THERMOSTAR® HD 600 is a newly developed asbestos-free insulating material based on alumina silicates. The outstanding mechanical properties and the excellent electrical properties up to 600 °C allow the use **THERMOSTAR® HD 600** for applications for which previously only special asbestos cements such as Hh, AZ 440 etc. could be used. Typical applications are steel mill technology, the glass industry and industrial furnace construction as well as thermal insulation of heated hydraulic presses and modern mould making for processing high-efficiency thermoplastics such as PEEK etc.

Special advantages

- high mechanical resistance
- very good resistance to heat and fire
- high resistance to chemicals
- low thermal conductivity
- approved for the food industry

Delivery form

- a) Plates 1200 x 1000 mm, thicknesses between 2 and 30 mm
- b) Tubes* with a minimum inner diameter of 3 mm (length 300 mm), standard length 1000 mm
- c) Finished precision parts using 2-/3-D processing according to a drawing or dxf.file

THERMOSTAR® HD 600	Unit	Mean value
Density	g/cm ³	2,2
Flexural strength (10 mm) at 23 °C	MPa	200
Compressive strength, vertical at 23 °C	MPa	400
Compressive strength at 200 °C	MPa	250
Thermal conductivity	W/mK	0,29
Coefficient of expansion	1/K	10 x 10 ⁻⁶
Application temperature, long-term	°C	600
Application temperature, short-term	°C	800
Water absorption acc. ISO 62	%	0,1
Dielectric strength	KV/mm	25
Arc resistance acc. DIN 53484		L6
Flame resistance acc. UL 94		V0

* The mechanical values achieve approx. 50 %