

Altra Mat 80

Basic raw material: high mullite alumina silica fibre

Classification temperature [°C]: 1600

Service temperature [°C]: (in non corrosive atmosphere) 1600

Chemical Analysis [%]:

Al ₂ O ₃	80
SiO ₂	20

Linear shrinkage [%] after 24 h at:

1400 °C	1
1500 °C	2
1600 °C	3

Thermal conductivity by the hot wire method [W/mK]

density	100 kg/m ³	80 kg/m ³	60 kg/m ³
200 °C	0,06	0,06	0,06
400 °C	0,09	0,09	0,10
600 °C	0,13	0,15	0,16
800 °C	0,19	0,23	0,25
1000 °C	0,28	0,37	0,41
1200 °C	0,41	0,59	0,65
1400 °C	0,61	-	-

Colour:

white

For application in corrosive atmospheres and close to maximum service temperatures we recommend consultation with our technical departments. The technical data are reference values, checked according to recognized test standards.

Draw up-name/date: KL 03/99	Release - Visa: KL	Stage of amendment: 05	Distribution: UIFOVK16/04	Product group: KMAltra80
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Additional information to explain the product (typical data):

Altra Mat 80

Kind of Delivery:

density	60 kg/m ³	80 kg/m ³	100 kg/m ³	120 kg/m ³	140 kg/m ³
thickness 12 mm	X	X	X	X	X
thickness 25 mm	X	X	X	X	X

Width: max. 620

Fibre melting point [°C]: > 2000

Crystal phases on delivery state: mullite

Fibre density [g/cm³]: 3,3

Average fibre diameter [µm]: 2 - 3

Mean specific heat [kJ/kgK] between

20 °C and 400 °C	0,98
20°C and 1200 °C	1,12

Characteristic feature:

Preferred ranges of application:

- modules for furnace linings, especially for discontinuous furnaces, Porcelain industry
- expansion joint inlays for refractory linings

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