

- HEATING
- INSULATION
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DIN EN ISO 9001
Zertifikat Nr. 71 100 G 016



M.E.SCHUPP® - ITM-FIBERMAX®

High Alumina Fibre Modules up to 1,600°C

Introduction

ITM-FIBERMAX® Modules are made of stacked multiple layers of blankets which are sewn together under compression, and are available in three temperature grades ranging between 1,500°C and 1,600°C. ITM-FIBERMAX® offers superior durability, resiliency, uniformity and dimensional accuracy. It has improved thermal stability over traditional ceramic fiber due to its mineral composition.

By using Module Cement ITM-FIBERMAX® can be mortared into place over existing refractory. Module Cement is a mixture of refractory mortar and inorganic binders. It is an air setting mortar exhibiting good adhesion at room temperature and strength at elevated temperatures.

Material properties

	ITM-FIBERMAX® 1500 Modules	ITM-FIBERMAX® 1550 Modules	ITM-FIBERMAX® 1600 Modules
Maximum Use Temperature (°C)	1500	1550	1600
Color	White	White	White
Bulk Density (kg/m ³)	200	150	130; 100
Linear Shrinkage (%)			
1000°C x 24 hrs.	-	-	-
1200°C x 24 hrs.	0.5	-	-
1300°C x 24 hrs.	1.0	0.4	-
1400°C x 24 hrs.	1.2	0.8	0.3
1500°C x 24 hrs.	-	1.4	0.7
Chemical Composition (%)			
Al ₂ O ₃	54	61	≥ 72
SiO ₂	Al ₂ O ₃ +SiO ₂ ≥ 99	Al ₂ O ₃ +SiO ₂ ≥ 99	Al ₂ O ₃ +SiO ₂ ≥ 99
Thermal Conductivity (W/m*K)			
800°C	0.16	0.17	0.18
1000°C	0.21	0.24	0.28
1200°C	0.28	0.34	0.43

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HIGH TEMPERATURE TECHNOLOGY