



INSULATING MATERIALS
based on Mica for use
in electrical equipment
 - in standard manufacturing sizes
 - in cuts, punched and machined parts

The need for increasingly smaller units of electrical aggregates with increasing capacities demand higher standards from insulating materials and systems. Because of and due to its outstanding dielectrical, thermal and mechanical characteristics, the mineralogical group of Mica in different development processes is irreplaceable and thus cannot be substituted by other insulating

materials in the electrical engineering field. Combined with selected resins mica as mica splittings or mica paper is processed into highgrade insulating materials. Constantly improved technologies and newly developed resin systems will ensure that our insulating materials based on mica will meet the requirements demanded in the future.

Type	Grade	Composition				Suitable for thermal classification	Application	Supplied in		For further information see special leaflet:
		Type of mica	Backing	Facing	Binder			sheets/rolls approx. mm	Nominal thickness ¹⁾ mm	
Rigid material for commutator separators	KOM 21 210.1	clear muscovite splittings	-	-	shellac	B	Insulation of commutator segments.	500 x 1000	0,5-1,2	Rigid material for commutator separators
	KOM 21 440.1	muscovite mica paper	-	-	epoxy	F		500 x 1000	0,4-2,0	
	KOM 21 440.1	muscovite mica paper	-	-	epoxy	F		500 x 1000	0,4-1,2	
	KOM 21 450.1	muscovite mica paper	-	-	epoxy-novolac	F		500 x 1000	0,4-1,2	
Rigid material for heating equipment	HEM 22 140	spotted muscovite splittings	-	-	epoxy	B	Supports and covers for heater elements in domestic and industrial appliances. Intermediate layers, backing plates, bushings in electrothermal apparatus.	570 x 1030	0,3-10,0	Rigid material for heating equipment
	HEM 22 170	spotted muscovite splittings	-	-	silicone	H		570 x 1030	0,3-10,0	
	HEM 22 470	muscovite mica paper	-	-	silicone	H		1100 x 1000	0,1-2,0	
	HEM 22 570	phlogopite mica paper	-	-	silicone	H		1100 x 1000	0,1-2,0	
	SEWITHERM	muscovite mica paper	-	-	silicone	H		1200 x 1000	3,0-90,0	
MICATOP	muscovite mica paper	-	-	inorganic	C	500 x 1000	0,5-2,0			
Rigid material heat formable	FOM 23 210.1	clear muscovite splittings	-	-	shellac	B	V-Rings, micanite-cylinders, ring segments in commutators. Other shaped pieces for the electrical engineering.	500 x 1000	0,15-2,0	Rigid material, heat formable
	FOM 23 210.2	clear muscovite splittings	-	-	shellac	B		500 x 1000	0,15-2,0	
	FOM 23 450	muscovite mica paper	-	-	epoxy-novolac	F		800 x 1000	0,2-2,0	
	FOM 23 470	muscovite mica paper	-	-	silicone	H		800 x 1000	0,15-1,0	
Flexible mica material	FLM 24 236	clear muscovite splittings	PET-film	PET-film	epoxy	F	Slot insulation, interlayers and interphase insulation. Lining of industrial furnaces. Wrapping of complicatedly shaped parts.	550 x 1000	0,15-1,0	Flexible mica material
	FLM 24 238	clear muscovite splittings	glass fabric	glass fabric	epoxy	F		550 x 1000	0,15-1,0	
	FLM 24 288	clear muscovite splittings	glass fabric	glass fabric	silicone	H		550 x 1000	0,15-1,0	
	FLM 24 436	muscovite mica paper	PET-film	PET-film	epoxy	F		800 x 1000	0,13-1,0	
	FLM 24 438	muscovite mica paper	glass fabric	glass fabric	epoxy	F		800 x 1000	0,15-1,0	
	FLM 24 488	muscovite mica paper	glass fabric	glass fabric	silicone	H		800 x 1000	0,15-1,0	
	FLM 24 580	phlogopite mica paper	-	-	silicone	H		800 x 1000	0,10-1,0	
Above mentioned FLM-grades can also be manufactured without backing and facing as well as with facing only										
Curable flexible mica material with B-stage resin	MIF 25 21P	clear muscovite splittings	paper	-	shellac	B	Insulating material for HV and LV machines and electrical apparatus.	1000	0,12-0,20	Micafoilo
	MIF 25 457	muscovite mica paper	glass fabric	-	epoxy	F		1000	0,13-0,39	
	MIF 25 477	muscovite mica paper	glass fabric	-	silicone	H		1000	0,21	
Mica tapes	GLB 26 437	muscovite mica paper	glass fabric	-	mod. epoxy	F	Insulation of the winding overhang and the connection in electrical machines.	≥ 10	0,12	Mica tapes
	GLB 26 432	muscovite mica paper	glass fabric	PET-film	mod. epoxy	F		≥ 10	0,13	
	GLB 26 439	muscovite mica paper	glass fabric	2 x PET-film	mod. epoxy	F		≥ 10	0,13	
	GLB 26 445.1	muscovite mica paper	PET-film	-	epoxy	F	Strand insulation	≥ 9	0,09	
	GLB 26 447	muscovite mica paper	glass fabric	-	epoxy	F	Insulation of the winding overhang and the connection in electrical machines	≥ 10	0,12	
	GLB 26 442	muscovite mica paper	glass fabric	PET-film	epoxy	F		≥ 10	0,13	
	GLB 26 449	muscovite mica paper	glass fabric	2 x PET-film	epoxy	F		≥ 10	0,13	
	GLB 26 457	muscovite mica paper	glass fabric	-	epoxy-novolac	F	Resin rich technology	≥ 15	0,13-0,39	
	GLB 26 487	muscovite mica paper	glass fabric	-	silicone	H	Flexible insulation in class H	≥ 10	0,12, 0,16	
	GLB 26 497/B	muscovite mica paper	glass fabric	-	epoxy	F	Post-impregnation (VPI)	≥ 20	0,15	
GLB 26 587	phlogopite mica paper	glass fabric	-	silicone	H	Flame resistant security cables	≥ 6	0,10		
Mica tubes	ROO 27 200	clear muscovite splittings	-	-	-	C	Insulation of carbon-brush supports, conducting-bars. Support of resistance wires of heating elements, insulation of bolts in resistors.	min. inside ≥ 5,0 mm - max. length 150 mm		SEMCAVOLT-Tubes
	RFE 27 445	muscovite mica paper	PET-film	-	epoxy	F				
	RGE 27 457	muscovite mica paper	glass fabric	-	epoxy-novolac	F				
	ROS 27 470	muscovite mica paper	-	-	silicone	H		3,0 - 4,9 mm I Ø : length 300 mm		
	ROS 27 570	phlogopite mica paper	-	-	silicone	H		5,0 - 7,9 mm I Ø : length 600 mm		
	ROA 27 5 X 0	phlogopite mica paper	-	-	inorganic	C		≥ 8,0 mm I Ø : length 1000 mm		

¹⁾ Other thickness on request