

KM-EL Flexible Heating Jackets

are composed of heating element, thermostat, thermocouple, high temperature fabrics, and Insulation blanket (as an integral part by sewing) and power cable/connector for connecting to electric controller.



BENEFITS AND FEATURES OF KM-EL:

- By integrating heating and thermal insulation into one part, KM-EL are fabricated to fit contour of heated objects with Velcro or fastening belts/D-rings for easy installation.
- Good thermal insulation and electric energy efficiency, low surface temperature, and uniform heat distribution.
- All materials used are either non-combustible or, at least, flame-resistant,
- High temperature capability to 1000 °C,
- Selection from Comprehensive materials of heating element, fabrics, Insulation blanket, sewing thread for most appropriate Combination of KM-EL
- **Clean room compatible**
- **Heating pad can be supplied with moisture/splash proof with 1.2mm thick only.**

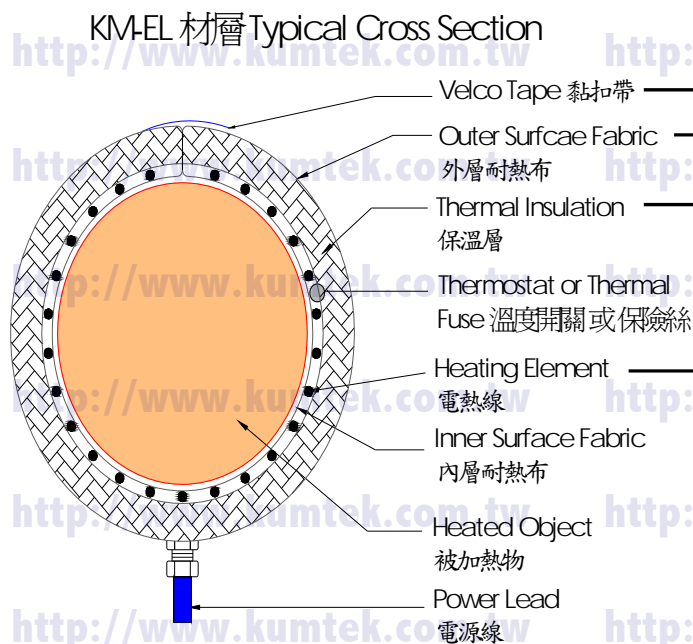


Your Solution for Insulation Since 1989 !

Built-in security devices and Power

Power	100 to 240Vac	Function
Thermostat	80 to 160 °C (5 °C per increment), 200 °C, 550 °C, 710 °C	Open (disconnect) the power circuit at preset temperature, to eliminate over heating. Close (reconnect) the circuit when temperature drop.
Thermal Fuse	220 °C, 270 °C,	Will disconnect the power circuit permanently At pre-set temperature.
LED Power Indicator	Green or Orange colored	Blinking for normal. Off for failure

KM-EL Typical Cross Section



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Materials Used

Materials selected based on the operation temperature and other requirements (ie: clean room)

Part Name	Material	Temp. Resistance	Features		
Heating Element	Ni-Cr alloy	--	Select the appropriate material from world leading manufacturer for required durability and Resistance (from 0.8Ω/m to 4000Ω/m), By selection the element Resistance and winding pitch, the wattage of KM-EL can be from 0.1W/cm ² to 0.8W/cm ²		
Outer Braided Insulation for Heating element	Special formulated Glass fiber	650 °C	Contain no material (ie. Silicone) that will de-grade at high temperature,		
	KM1000 fiber	900 °C			
	KM1200 fiber	1200 °C			
Material	Temp. °C	Features	Applications		
			Inner Layer	Outer Layer	Insulation
100% PTFE Film	290	Flame Resistance, Class 10 Cleanroom Standard, No smoke/odor at high temperature, 0.08mmthick, soft , weathering and UV resistance, non-stick surface, water Oil resistance, easy for cleaning, excellent chemical resistance	⊙	⊙	X
PTFE coated glassfiber cloth	290	Flame Resistance, Class 1 or Class 10 Cleanroom Standard, No smoke/odor at high temperature,, soft , weathering and UV resistance, non-stick surface, water & Oil resistance, easy for cleaning, chemical resistance	⊙	⊙	X
Aluminized glassfiber cloth	200	Flame Resistance, Class 1 Cleanroom Standard, superior surface aluminization (no de-lamination, smooth surface) non-stick surface, water & Oil resistance, easy for cleaning,	X	⊙	X
KM1200 Cloth	1200	Non-combustible, Retain required strength , flexibility , insulation at 1200 °C	⊙	△	X
KM700 Cloth	650	Non-combustible, Retain required strength , flexibility , insulation at 650 °C	⊙	△	X
KM600 Blanket	500	Non-combustible, good thermal insulation, much less off smoke and smell than other brands.	X	X	⊙
KM1000 Blanket	900		X	X	⊙

⊙: Excellent Δ: Fair X: Not Suitable



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THERMOTECH 工德

Tele: +886-3-4644666

Fax: +886-3-4644578

E-mail: services@kumtek.com.tw

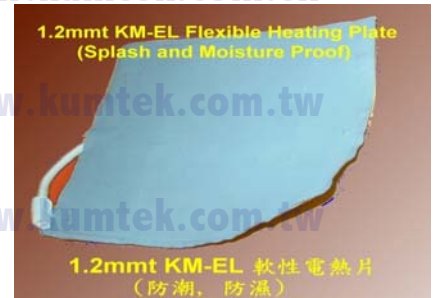
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KUMTEK INTERNATIONAL CO., LTD. / THERMOTECH CO., LTD.
No. 7, Alley 26, Lane 813, Gaush Road, Yangmei Jen, Taoyuan, Taiwan.

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