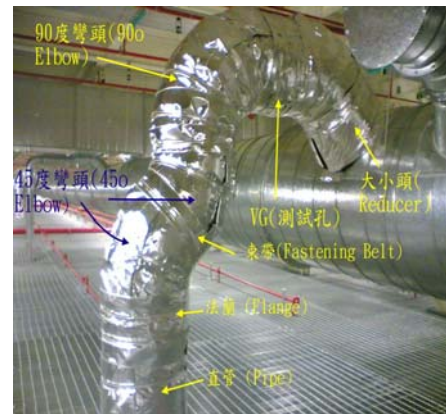


KM600-CR Insulation for Clean Room

By using non-asbestos high temperature fabric as inner and outer layers and insulation blanket (alumina-silicate fiber blanket or needled fiberglass felt) as medium layer, KM600-CR is ideal substitute to conventional insulation by fiberglass, rockwool, calcium silicate or Perlite insulation with aluminum or stainless covering and has been proven suitable for clean room applications by numerous cases. KM600-CR will provide excellent insulation value, help to reduce the energy loss, minimize the burning injuries.



Layers Construction

Materials	Outer Layer	Insulation	Inner Layer	Velco Tape
Material ID.	IN-AL#4-43L/M Aluminized Fiberglass Cloth	Alumina-Silicate fiber blanket	INFLUO#4-56P/P PTFE coated fiberglass cloth	Flame retarded PVC or Nomex®
Thick (mm)	0.4	6 to 50	0.4	--
Flame Resistance	CNS 10285, Grade-1 FED STD191/5903.3: Flame out-1 sec. Afterglow- 1 sec. Char Length-1"	CNS 6532 Grade-1 Non-combustible	CNS 10285, Grade-1, FM4910, UL94 VO (PTFE)	
Color	Silver/white	White	Gray/dark brown	
Temperature resistance °C	204/500(base material)	1000+	287/500(Base material)	180(PVC)/ 240(Nomex)
Clean Room class	Per IES-RP-CC003.2 method, by Helmke Drum Rotating Test Particles $\geq 0.3\mu\text{m}$: 4 count/pc, $\geq 0.5\mu\text{m}$: 1 count/pc, $\geq 1\mu\text{m}$: 0 count/pc, meet FED. STD. 209E Class 1 and ISO-14644-1 ISO 1			

Nomex® is the trademark of DuPont

Benefits

1. EASY TO INSTALL, REMOVABLE AND RE-USABLE:

No special techniques/tools required for installation. The jacket is made To conform to intricate shapes and **CAN BE REMOVED/REINSTALLED MULTIPLE TIMES EVEN BY THE END USERS.**

2. NO POLLUTION TO CLEAN-ROOM ENVIRONMENT !

All KM600 jackets are thoroughly cleaned before being brought into clean Room. The surface are smooth and free from any particle and dust.

NO POLLUTION THROUGHOUT THE LIFE OF THE JACKETING FROM INSTALLATION, INTERNAL MAINTENANCES (REMOVED AND REINSTALLED) TO REPLACEMENT.

3. EXCELLENT INSULATION EFFECT TO 280°C :

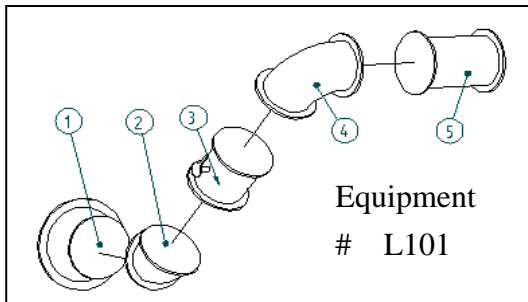
Thermal conductivity of the insulation (medium layer) is around, 0.06W/m.k. At 200°C only with very low specific heat (low heat storage) • Low outer face temperature and energy conservation can be achieved.

Operation Temp.	KM600-CR Surface Temp.	KM600-CR Surface Heat Loss, W/m2
170°C	45 °C	179
180 °C	47 °C	194
190 °C	49 °C	208
200 °C	50 °C	223

Assumption of above estimation: 25mmt insulation at 25 °C ambient temp., no. wind

KM600-CR Installation

All KM600-Cr jackets are fabricated to the sizes of the ducts and or equipments with marking as per drawing as illustrated in below.



1. Installation of KM600-CR is best to be done by team of at least 2 persons. Install the right KM600-CR jacket per drawing and pull the jackets tightly around the duct or equipment and fix it by Velco tape.
2. Wrap the jackets by the fastening tape with D-ring and Velco Tape.

Note:

1. Each individual KM600-CR jacket should be fixed by at least 2 fasten tapes.
2. Make sure all duct and equipments are covered by KM600-CR.

