KHC-500
KEVLAR INSULATING JACKET
FOR SENSOR

DESCRIPTION:
The KHC-500 is an insulating outer jacket for the ASC sensors. It is custom-made using Kevlar material, and is recommended for high ambient condition applications.

This woven Kevlar fabric of an Arimid fiber blend over a carbon core yarn aluminized one side.

It is used against intense radiant heat from bright red, yellow, or orange material at relatively short range. It is resistant to reflected heat sources and offers thermal protection to 343 °C (650 °F).

Molten iron splash heat transfer chart
SPECIFICATIONS:

- **Base fabric**: Aramid cover with “PAN” insert
- **Color / appearance**: Aluminized 1 side, light pea-green reverse
- **Weave style**: 2/2 herringbone twill
- **Fabric weight**: 19.1 (649 mg / sq m)
- **Fabric thickness**: 1.07 mm (0.042”)
- **Warp strength**: 100 kg / 2.54 cm (220 lbs / in)
- **Fill strength**: 61 kg / 2.54 cm (135 lbs / in)
- **Abrasion resistance**: excellent
- **Thermal conductivity**: 0.645 (ASTM C-177)
  
  "K" factor (BTU x in /hr x sqft x deg.F)

- **Total conductance**: 21.70 (ASTM C-177)
  
  "C" factor (BTU x sqft x deg.F)

- **Total resistance**: 0.046 (ASTM C-177)
  
  "R" factor (ht x sqftxdeg.F/Btu)

- **Coating / lamination**: Mylar film aluminium laminate
- **Solvent resistance**: n/a
- **Sunlight & age resistance**: base fabric is partially UV sensitive
- **Electrical properties**: n/a