INCAPTEK
INNOVATIVE TECHNOLOGIES

ULTRA-LOW Dk 1.3-1.5

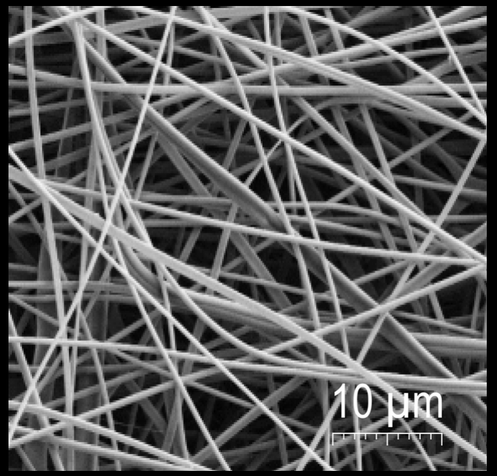
3

POLYIMIDE NANOFIBRE NON-WOVEN FABRICS

Cost-effective and sustainable technology
(doesn't require toxic solvents and high curing temperatures, and uses fast curing rates)

Sustain high operating temperatures

Chemical and radiation resistant



FOR NEXT-GENERATION ELECTRONICS, COMPUTING AND TELECOM DEVICES

AS LITHIUM-ION BATTERY SEPARATORS

FOR LI-ION BATTERY HOUSING FOR HIGH-TEMPERATURE PROTECTION AND THERMAL RUNAWAY MITIGATION

AS FILTER MEMBRANES FOR OIL&GAS INDUSTRY

INCAPTEK
INNOVATIVE TECHNOLOGIES

Advantages of our PI non-woven fabric for Li-ion battery separators

- **Superior thermal stability**
- **Superior electrolyte uptake and ionic conductivity**
- **Superior ionic conductivity**
- **Lower discharge decay with increasing cycle number and higher discharge capacity**
- **Fire resistance and extremely low thermal conductivity, making them a much safer option**
- **Good mechanical strength**

Future developments

Thermal runaway is a common problem of Li-ion batteries (when the cell enters an uncontrollable, self-heating state, which can result in fire).

Development of safer batteries by preventing thermal runaway of Li-ion batteries.