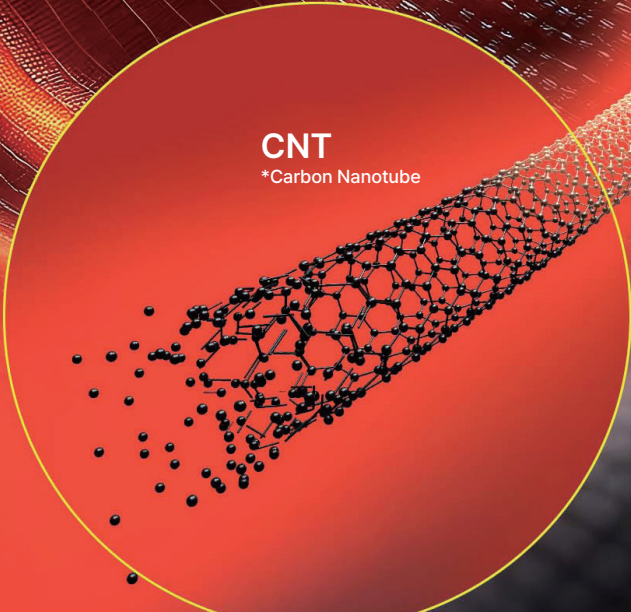
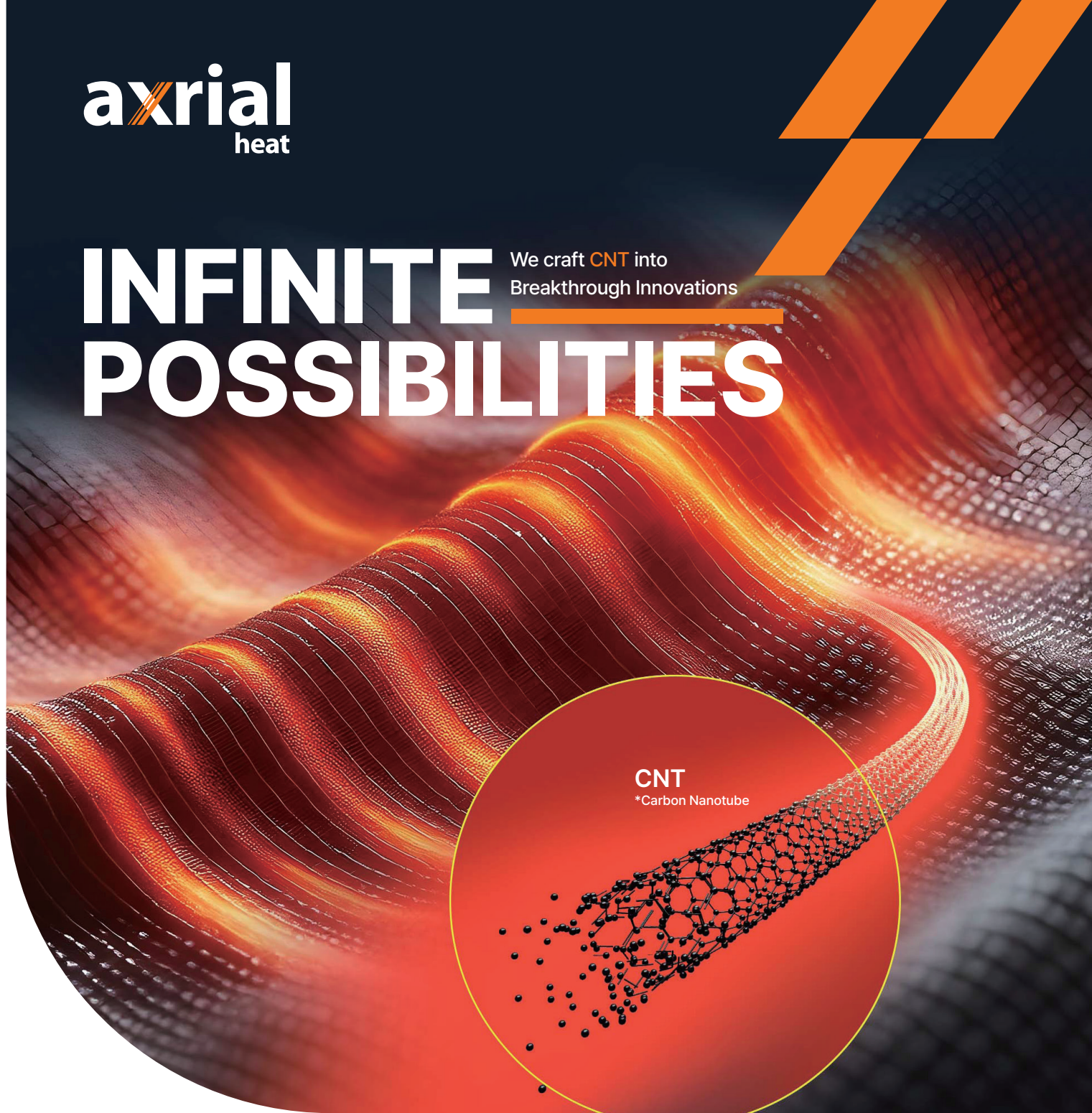




INFINITE POSSIBILITIES

We craft **CNT** into
Breakthrough Innovations



axrial heat is a CNT-based material available in fabric, film, and wire formats. It provides both heating and cooling functions. The size and shape can be adjusted during processing, and it is lightweight, flexible, and highly durable against fatigue. That makes it ideal for next generation heating and cooling applications like wearables, massage chairs, and more.

Thermal conductivity
(vs. nichrome)

300% ↑

Heat resistance
(in air)

500°C

Still works after repeated use

Infinite Possibilities

We craft CNT into Breakthrough Innovations



aweXome Ray

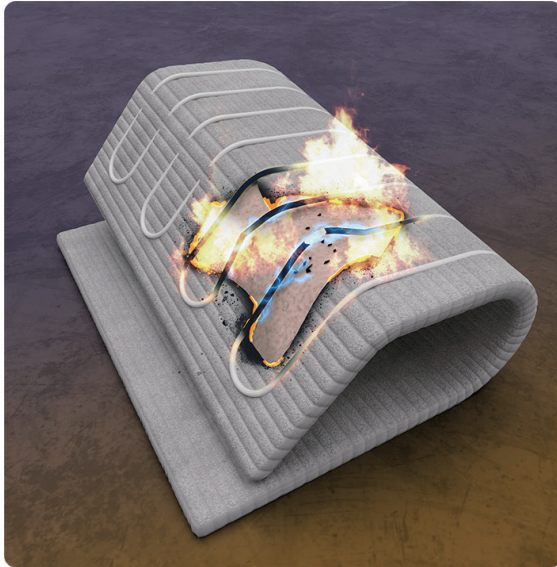
+82-70-5220-0279

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Pain point

Conventional heating materials lack fatigue durability and are easily damaged by repeated bending or movement. Their poor stability and heating efficiency often require extra reinforcement, which adds thickness. These limitations make it difficult to apply these materials to products with complex shapes or curved surfaces.

Traditional metal / carbon-based heating materials



Core strengths of axrial heat

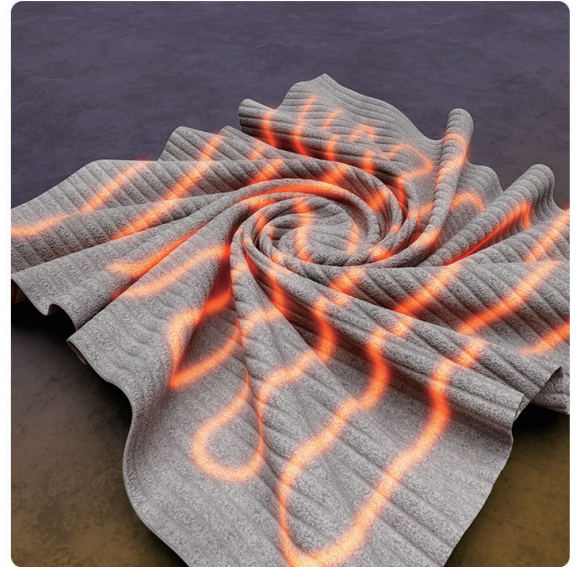
Thermal conductivity (vs. nichrome)
300% ↑

Heat resistance (in air)
500°C

Weight (vs. copper)
20%

Tensile strength
1.0-5.0N/tex

CNT based heating materials



Core strengths of axrial heat

axrial heat is a CNT fiber-based heating material available in yarn, fabric, and film formats. It offers precise temperature control and high fatigue durability, making it reliable for a wide range of applications. It can also be blended and woven with conventional textiles, making it ideal for wearables, devices, and smart clothing.



Target applications

This is ideal for products that demand flexibility and fatigue durability, including wearables, smart clothing, massage chairs, and medical heating devices.