

PCM Jacket



CBRN



Body Protection Jacket with Phase Change technology to assist in the reduction of heat.

stress, heat stroke and heat-related injuries to all personnel working in High Heat areas in the Defense and Industrial segments.



Body Protection With PCM TECHNOLOGY

Concept :



- ▶ The most basic and most widely used form of cooled personal protective equipment (PPE) is vests that use phase change material (PCM) for thermal energy storage..
- ▶ Heat energy always moves from a warmer place to a cooler place.
- ▶ PCM maintains a stable cooling temperature during phase change.
- ▶ Cooling range: 15°C–18°C for effective heat reduction.
- ▶ Human body heat generation ranges from 70W to 870W based on activity.
- ▶ PCM provides approx. 59.5W torso cooling for light to moderate work.
- ▶ PCM inserts are commonly encapsulated in durable polyurethane material.

Application :



MILITARY & DEFENSE

Para Military and Defense soldiers working in Tropical conditions at the Borders like the desert Borders of Rajasthan and Gujarat parts of MP and UP etc, all suffer from Heat Stress and fatigue due to heat."



INDUSTRIAL WORKPLACE

Areas having manufacturing in Tropical countries and tropical areas are most vulnerable to heat either in Natural form that is the environment.



HEAT INTENSIVE OPERATIONS

Heat generated as a result of operations such as Furnaces, Smelters, Foundries, Glass Manufacturers, Alloy Manufacturers.



WELDING & METAL WORKS

Welding Process houses and other high heat exposure operations.



CONSTRUCTION INDUSTRY

Construction industry professionals working in hot and humid conditions



EMERGENCY & RESCUE TEAMS

First responders and rescue teams operating in High Heat environments

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