

Heat Stress Management Solutions



B=KOOOL
BODY COOLING PPE

TURN PAGE TO VIEW PRODUCTS

B=KOOL

BODY COOLING PPE

Body cooling PPE refers to specially designed personal protective equipment aimed at reducing heat stress and maintaining a safe core body temperature for individuals working in hot environments. It works through various mechanisms to dissipate heat and enhance the body's natural cooling processes.

Dry evaporative cooling technology in PPE utilizes specialized materials that can absorb and slowly release water through evaporation, providing a cooling effect without making the wearer feel wet.

Water Absorption: The PPE (like vests, hats, or towels) is made with fabrics or embedded polymers designed to efficiently absorb and retain a specific amount of water.

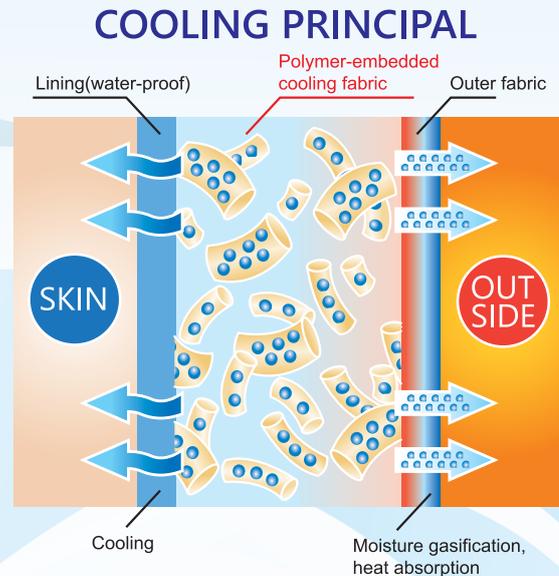
Controlled Evaporation: These materials are engineered to release the absorbed water gradually through evaporation when exposed to air.

Heat Transfer: As the water evaporates, it draws heat energy away from the wearer's body surface. This heat transfer cools the skin and the blood circulating near the surface, thus helping to lower the overall body temperature.

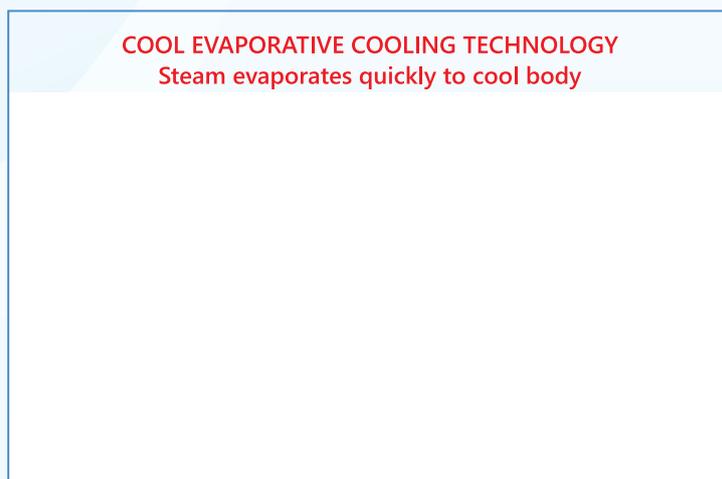
"Dry" Feel: Unlike simply wearing a wet cloth, these technologies aim for a controlled release of moisture, so the wearer experiences a cooling sensation without feeling excessively wet or having their clothing soaked. Some advanced versions even incorporate waterproof layers on the inside to ensure dryness against the skin.

Effectiveness: The cooling effect depends on factors like ambient temperature, humidity, and airflow. It works best in hot, dry conditions where evaporation rates are higher.

B=KOOL Body Cooling PPE: Natural sweating process but in a more controlled and efficient way using advanced materials.



FABRIC COOLING TECHNOLOGY - HOW IT WORKS!



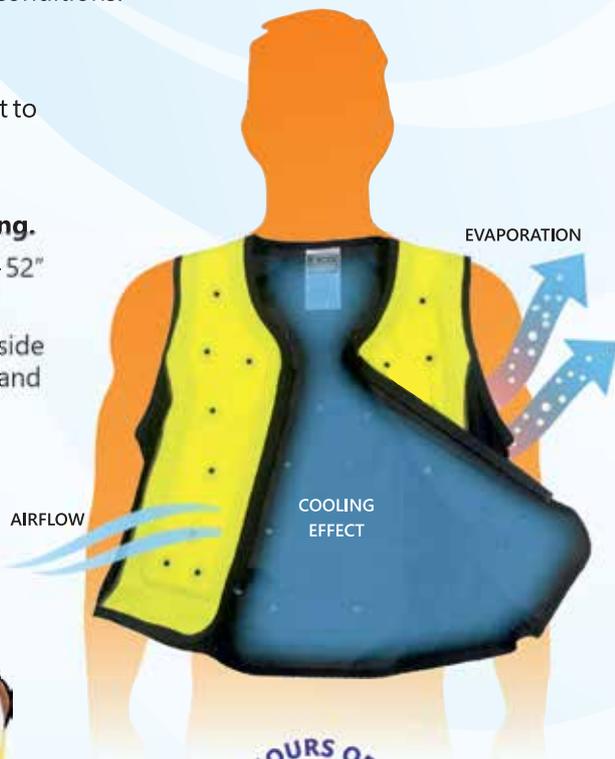
EXPLORE **B=KOOL** BODY COOLING PPE SOLUTIONS



DRY COOL JACKET BK-2000



- Waterproof breathable TPU / Nylon membrane permits passage of fine water vapor molecules through the ultra fine pores but prevents water from leaking out of the jacket.
- An inner layer made of Ice Silk fabric with a waterproof film quickly absorbs body heat without allowing the water to come directly into contact with the skin.
- The middle layer is a Super Absorbent fabric working as a sponge absorbs water and releases as diffused vapor generating cold energy when body temperature rises through convection process. HEAT IN – COLD OUT convection process maintains body temperature during summers and high heat conditions.
- When dry, simply refill 100ml water in each front pocket and 300ml in the back pocket, slide palm across complete jacket front and back after filling water to ensure proper penetration across complete jacket to reactivate.
- **Cooling effect between 6 – 12* Deg. C is maintained until water completely evaporates. Lasts upto 6 – 7 hours or more in one filling.**
- Available in 2 sizes: Medium & Large. (Medium: 38" -44" & Large 46" – 52" Chest Size).
- Easy On/Off – After filling water, wear jacket & tighten straps on both side for a snug fit. Works best when jacket is in constant contact with front and back torso.
- Minimal maintenance, **NO Fans, Batteries, Ice Packs, PCM or Refrigeration required. Works with normal water.**
- Ideal for Oil & Gas installations, Utilities, Heavy industry, Facilities Management, Logistics, Air & Sea Ports and many more.



LONG-LASTING EFFECT
DRY & COMFORTABLE

TECHNOLOGY GRADUALLY RELEASES WATER THROUGH EVAPORATION FROM THE INSIDE OUT-KEEPING YOU COOL, COMFORTABLE AND MOST IMPORTANTLY, DRY

**Cooling efficiency / body heat reduction depends on temperature and air flow-light air flow is necessary for optimal functioning. Efficiency may reduce in extreme humid conditions and still atmosphere.*



BODY COOLING VEST BK-2426



PVA + Polyester mesh combines cooling and ventilation

- Comfort fit with side mesh panels for moisture-wicking
- Activate by soaking* in water for 3-5 minutes, twist and shake out excess water
- Keep workers cool for 3-4 hours
- Lightweight, Durable and Reusable, simply reactivate by soaking in water
- Grey side panels with front and back PVA panels
- Available in sizes Large, XL & 2XL
- Machine or Hand Wash, Do not, bleach, iron or dry clean, air dry

**Soaking – Soak in normal OR cold water, twist excess water and flap a few times to activate cooling effect.*

SPORTS COOLING VEST BK-2422



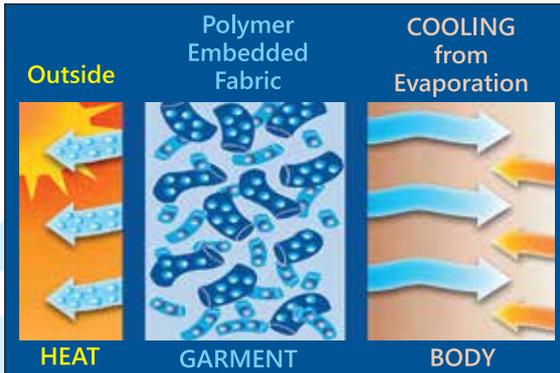
- Polyester mesh ventilation lining with embedded polymer cooling fabric
- Worn over neck with side zip and round neckline
- Evaporative technology ensures cooling relief over 4-5 hours from heat
- Comfortable and skin friendly with efficient heat dissipation
- Activate by soaking* in water for 3-5 minutes, twist and shake out excess water
- Lightweight, Durable and Reusable, cools the body through evaporation of water
- Available in 4 sizes – Medium, Large, XL & 2XL
- Machine or Hand Wash, Do not bleach, Iron or Dry clean

**Soaking – Soak in normal OR cold water, twist excess water and flap a few times to activate cooling effect.*



COOLING SKULL CAP BK-2435

- High Cool Polymer fabric wicks moisture away, keeps head and neck dry
- Cotton Lining keeps sweat from dripping into eyes
- Low-Profile, tie fasten at back for comfortable fit
- Cools head and neck when wet* provides instant relief - repeat when dry
- One Size Fits Most
- Available in blue colour only
- Hand Wash, Do not bleach, Iron or Dry clean, Air dry



**Wet – Soak in normal OR cold water, hand wring and flap a few times to remove excess water before wearing.*

HEAD & NECK COOLING BAND (for Hard Hats) BK-2429

- 100% cotton with PVA inner cooling fabric
- Securely attaches inside safety helmets with velcro bands
- Activate by soaking* in water for 2-3 minutes, twist and shake out excess water
- Combines cooling comfort with neck protection from the sun
- When dry, simply reactivate by soaking in water
- One size fits most safety helmets
- Available in blue colour only
- Hand Wash, Do not bleach, Iron or Dry clean, Air dry



EASILY INSTALLS ON MOST HARD HATS

2 HOOK & LOOP STRAPS SECURELY ATTACH TO SUSPENSION



EVAPORATIVE COOLING TECHNOLOGY

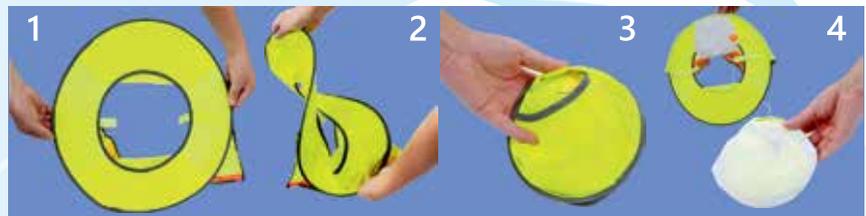
POLYVINYL ALCOHOL EASILY ACTIVATES FOR COOL RELIEF ON HOT DAYS



**Soaking – Soak in normal OR cold water, twist excess water and flap a few times to activate cooling effect.*

HARD HAT BRIM WITH NECK SHADE BK-2501

- 100% Polyester mesh with ventilation
- Covers neck and ears - complete protection against harmful UV rays
- Fluorescent Yellow & Orange mesh with reflective trim
- Elastic band fixes into most hard hat brim
- Optimizes airflow to keep workers cool
- Lightweight, Durable and Reusable.
- Available in bright Yellow & Orange colors
- Machine or Hand Wash, Do not bleach, Iron or Dry clean, Air dry



EASY TO INSTALL, UNINSTALL, FOLD AND STORE

NECK COOL (FOR HARD HATS) BK-2437



- Polyester mesh ventilation lining embedded with PVA polymer cooling fabric
- Bright yellow color with reflective strips ensures high visibility
- Elastic band fixes into hard hat brim
- Long neck shade for protection against harmful UV rays
- Evaporative technology - cools neck and prevents sunburn
- Activate by soaking* in water for 2-3 minutes, twist and shake out excess water
- Lightweight, Durable and Reusable, simply rewet to activate cooling
- One size fits most hard hat brims
- Hand Wash, Do not bleach, Iron or Dry clean, Air dry

HI-VIS HARD HAT NECK SHADE

BOOSTS VISIBILITY WHILE SHADING NECK AND EARS FROM SUN DAMAGE KEEPING WORKERS SAFE AND SEEN



EASILY INSTALL ON MOST HARD HATS

ELASTIC RIM STRETCHES TO FIT AROUND STANDARD AND FULL BRIM HARD HATS

ELASTIC RIM FOR SECURE FIT



*Soaking – Soak in normal OR cold water, twist excess water and flap a few times to activate cooling effect.



DUAL PURPOSE COOLING TOWEL BK-2413

- Multi-Purpose Towel with Cooling PVA centre and microfiber ends.
- Soak* Towel in water for 2-3 minutes
- Microfiber ends absorbs sweat, ideal for wiping hands and face
- When dry, PVA becomes stiff, simply reactivate by wetting, re-usable over and over again
- Ideal for cooling neck, head, arms, etc – great addition to keeping cool during summers
- Size: 86 x 20 cms - sufficient for covering neck or head
- Machine or Hand Wash, Do not bleach, Iron or Dry clean, Air dry



EASY ACTIVATION

RUN OR SUBMERGE UNDER WATER FOR ONE MINUTE TO ACTIVATE COOLING TECHNOLOGY



REUSABLE RE-WET TO ACTIVATE

EVAPORATIVE COOLING TECHNOLOGY

PVA EASILY ACTIVATES WITH WATER FOR COOL RELIEF ON HOT DAYS



4 HOURS OF COOLING



MULTI-PURPOSE PVA + MICROFIBER

HYPER-EVAPORATIVE PVA PROVIDES FOUR HOUR OF COOLING WHEN WET

ABSORBENT MICROFIBER ENDS ARE A SOFT CLEAN SPOT FOR WIPING HANDS, FACE OR GLASSES

*Soak – Soak in normal OR cold water, hand wring and flap a few times to remove excess water before using.

WELDERS COOLING HOODIE BK-2416

- Multi-Purpose reusable cooling hoodie towel designed to cool head & neck
- Unique fabric design, chemical free, durable polyester mesh
- Activate by soaking* in water for 2-3 minutes, twist and shake out excess water
- Hoodie towels provide UPF 50 Sun Protection and are highly absorbent
- Wicks moisture away, provides relief from hot Sun
- Ideal for cooling neck, head, arms, use it in different ways
- Machine or Hand Wash, Do not bleach, Iron or Dry clean, Air dry

*Soaking – Soak in normal OR cold water, twist excess water and flap a few times to activate cooling effect.



EASY TO USE IN FOUR STEPS



1 SOAK
SOAK THE COOLING HOODIE TOWEL IN WATER



2 WRING
WRING OUT THE WATER



3 SHAKE
SHAKE THE TOWEL 3-5 TIMES



4 WEAR
WEAR IT ON YOUR HEAD TO FEEL COOL



COOLING NECK GAITER BK-2409

- Protects face against Wind, Sun & Dust
- Reflective strips enhances visibility
- Cools face and neck instantly when wet* provides instant relief
- Bright yellow colour boosts visibility during the day
- Absorbs sweat and wicks moisture away keeping skin dry. Eliminates sticky feeling
- Can be used in multiple ways to protect head, neck and face
- Upto UPF 50+ protection from harmful UV rays
- Protects skin from harsh Sun and prevent skin burn
- One Size Fits Most – Soft, stretchable and seam-free performance knit fabric
- Machine or Hand Wash, Do not bleach, Iron or Dry clean, Air dry



*wet – Soak in normal or cold water, hand wring to remove excess water before wearing.

PVA COOLING VEST BK-2425

- 100% PVA (Polyvinyl Acetate) cooling material
- Super Absorbent and Evaporative, enjoy instant cooling relief and comfort from the heat
- Comfortable and skin friendly with efficient heat dissipation
- Activate by soaking* in water for 3 – 5 minutes, twist and shake out excess water
- Lightweight, Durable and Reusable, cools the body through evaporation of water
- Velcro adjustment for tightening vest snugly to body - for maximum efficiency
- One size fits most
- Hand Wash, Do not bleach, Iron or Dry clean, Air dry

*Soaking – Soak in normal OR cold water, twist excess water and flap a few times to activate cooling effect.



NO ICE

NO ELECTRICITY

ECO FRIENDLY

CAN BE RE-USED



*Activated Cooling Vest
keep you cool all summer*



COOLING CAP WITH NECK SHADE BK-2446

- Lightweight Cooling Cap protects head and neck from harsh sun
- Upto UPF 50+ protection from harmful UV rays
- Hi-Performance fabric transfers sweat and moisture away to keep workers cool and dry
- Cools head and neck when wet* provides instant relief, repeat when dry
- Comfortable all day wear
- HI-VIS Yellow and Orange colors keep workers safe and seen
- One Size Fits All
- Hand Wash ONLY - Do not Bleach, Iron or Dry clean

*Wet – Soak in normal OR cold water, hand wring and flap a few times to remove excess water before wearing.



HEAD COOLING BAND BK-2434



- 100% cotton with polymer embedded cooling fabric
- Universal fit into most safety helmets suspension system
- Dual benefit of cooling and cushioning in front of head
- Activate by soaking* in water for 2 - 3 minutes, twist and shake out excess water
- Keep workers cool for 3 - 4 hours
- Lightweight, Durable and Reusable, simply reactivate by soaking in water
- One size fits most safety helmets
- Hand Wash, Do not Bleach, Iron or Dry clean, Air dry

*Soaking – Soak in normal OR cold water, twist excess water and flap a few times to activate cooling effect.

COOLING SLEEVES BK-2452

- 86% Spandex - 14% Nylon arm sleeves with thumb hole to prevent sliding
- Protects skin from harsh UV rays - cools skin - Ice cool touch
- Activate by soaking* in water for 1-2 minutes, twist and shake out excess water
- Available in two sizes Medium & Large
- Breathable design, wicks moisture away, provides relief from hot sun
- Machine or Hand Wash, Do not Bleach, Iron or Dry clean

*Soaking – Soak in normal OR cold water, twist excess water and flap a few times to activate cooling effect.



RAPID COOLING EFFECT
SEAMLESS TECHNOLOGY
SUN PROTECTION
BREATHABLE



MANAGING HEAT STRESS



Before activity



Ensure aerobic fitness.

A healthy cardiovascular system enhances heat regulation.



Plan your pace.

Reduce your pace to avoid heating.



Stay cool.

Lower body temperature before activity and stay under shade with fans.



Wear loose-fitting & light-coloured clothes.



Plan for rest breaks.



Be well-hydrated.

Mild symptoms

Feeling faint, dizzy

Nausea, vomiting

Muscle cramps, weakness, fatigue

Rapid, shallow breathing



+ **Reduce pace**
Stop the activity.

+ **Rest in the shade**
Rest in a cool shaded area with ventilation.

+ **Remove clothing**
Loosen or remove excess clothing.

+ **Reinforce cooling**
Enhance cooling using fans, cold packs, cold towels, or cold water ingestion.

The presentation & severity of symptoms may vary between individuals.

Severe symptoms

Confusion, irritability

Unconscious or experiencing seizure

Disoriented



+ **Rapid temperature reduction**
Cool immediately with the use of ice packs, wet towels, cool water or a cooling blanket. Douse with cold water if possible.

+ **Rush to hospital**
Call 998 and maintain cooling en route.

Lockout Tagout



General Safety, Hardware & Tools



Arc Flash Protection PPE



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Insulated Tools



Ultra Grime Cleaning Wipes



BEKOOL Body Cooling PPE

