BODY PROTECTION & WORKWEAR · PREMIUM & SPECIALISED (HSE-MANDATED)

Heat-Stress Kits & Cooling PPE

Heat-stress kits are sets of cooling vests, neck and helmet shades, WBGT heat-stress meters, electrolyte supplies and signage used to prevent heat exhaustion and heat stroke among outdoor workers in hot climates.

TECHNICAL SPECIFICATIONS	
Standards & guidance	ISO 7243:2017 WBGT; ACGIH TLV heat stress; OSHAD CoP 11; UAE MoHRE Midday Break; Aramco heat stress programme
PCM vest	Polyester or FR outer with 4–8 PCM packs, 15 °C or 18 °C melting point, 2–4 h cooling
Evaporative vest	Polymer-embedded quilted fabric, soak 2 minutes, 5–10 h cooling
WBGT meter	Globe, natural wet bulb and dry bulb sensors, WBGT range typically 0–60 °C, data logging on selected models
Neck shade	Polyester or FR cotton helmet-mounted shade, UPF 50+
Electrolytes	Powder sachets for 500 mL or 1 L, sugar-reduced
Sizes	Vests S to 3XL; one-size shades and towels
Colours	Hi-viz yellow, orange, navy, FR royal blue
Packaging	Vests individually bagged; kits in labelled site bin with contents list

Key features

- PCM cooling vests with 15 °C or 18 °C inserts give 2 to 4 hours of cooling, rechargeable in iced water or fridge
- Evaporative polymer vests activate with water in minutes and work best in dry inland sites
- Helmet neck shades, cooling towels and sweatbands in hi-viz or FR versions for petrochemical sites
- Handheld WBGT meters measure globe, wet bulb and dry bulb to classify work-rest cycles per ISO 7243
- Electrolyte sachets, insulated water coolers and urine colour charts for hydration monitoring
- Heat stress awareness posters and flag systems in Arabic, English, Hindi and Urdu

Variants available

- PCM cooling vest with spare insert set
- Evaporative cooling vest hi-viz
- FR cooling vest for ADNOC and Aramco sites
- Helmet neck shade and cooling towel pack
- WBGT heat stress meter with tripod
- Site heat-stress awareness kit with posters, flags and electrolytes

TYPICAL APPLICATIONS	
Construction	roofing, steel fixing and road works during summer in Dubai, Abu Dhabi and Riyadh
Oil & gas	turnaround crews, scaffolders and flare area workers at Aramco and ADNOC facilities
Solar	module installation and cable pulling across open desert sites in Saudi Arabia and Abu Dhabi
Logistics & ports	container yard, tanker loading and airside ground crews in Jebel Ali and Dammam
Industrial	furnace, kiln and boiler maintenance in cement, steel and aluminium plants
Municipal	landscaping, waste collection and traffic marshalling crews

COMPLIANCE, BRANDS AND SELECTION

Compliance (UAE / GCC)

The UAE Ministry of Human Resources and Emiratisation enforces a midday break prohibiting outdoor work under direct sun from 12:30 to 15:00 between 15 June and 15 September each year, with fines per worker for violations. Abu Dhabi OSHAD CoP 11 Safety in the Heat requires a heat stress management plan with WBGT or thermal work limit monitoring, rest shelters, water and acclimatisation. Dubai Municipality applies similar requirements through its construction safety code.

Brands we supply

Ergodyne, TechNiche, Portwest, Inuteq, Extech, TSI

How to choose

1. Choose PCM vests for humid coastal sites where evaporative vests lose effectiveness; evaporative for dry inland desert
2. Specify FR cooling vests and FR neck shades where workers already wear FR coveralls in hydrocarbon areas
3. Pick a WBGT meter with data logging if your HSE plan requires hourly records for Aramco or ADNOC audits
4. Build site kits around the crew size: one vest per worker with spare inserts, plus shared meters and hydration stations

Request a quotation

Send quantity, sizes and delivery location. We reply with an itemised quotation and certificates within one working day.

WhatsApp / call +971 54 541 4145 · faizal@albarakaservices.com

Product page: albarakaservices.com/products/safety-products/heat-stress-kits/

Typical specifications for this product class, compiled by Al Baraka Diyar for quotation and tender preparation. This is not a manufacturer datasheet. Exact values, markings, sizes and certificates depend on the brand and model supplied and are confirmed in our quotation and in the manufacturer's test certificates. Always verify suitability with your site HSE officer. Information is subject to change without notice.