

The Heat-Stroke Prevention Wristband

The Heat-Stroke Prevention Wristband is a device for real-time heat-risk monitoring with multi-mode alerts (light, sound, vibration) in high-temperature environments.



NETIS

独自技術
特許出願中

aitex

CE

RoHS

FC

UL

How to Use



Wear It

Turn on the device and wear it before work.



Monitor

The device monitors heat-related risks.



Get Alerted

Light, sound, and vibration warnings.



Take Action

Rest, cool down, and hydrate.



Early Warning Stay Ahead of Heat Risks

Provides early heat-risk warnings to help workers respond before conditions become serious.



Standalone Device Ready to Use

Operates independently without Wi-Fi, Bluetooth, apps, or monthly subscription fees.



Alert Modes Visible · Audible · Vibration

Delivers multi-mode alerts through light, sound, and vibration to help workers notice warnings promptly.



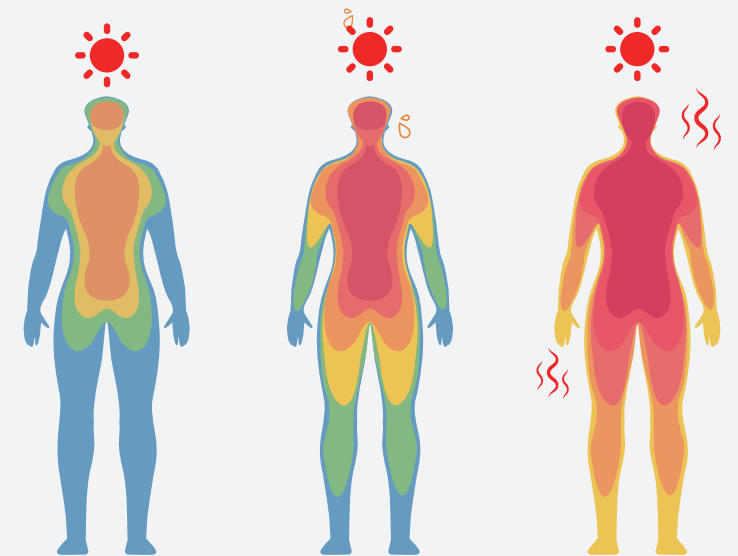
IP67 Built for Tough Jobs

Features IP67-rated water resistance for reliable use in outdoor and industrial applications.

What Is Heat Stroke?

Heat stroke is the most severe form of heat-related illness. It occurs when the body's temperature regulation fails and body temperature rises to a dangerous level. OSHA defines heat stroke as a medical emergency that may result in death if not addressed urgently.

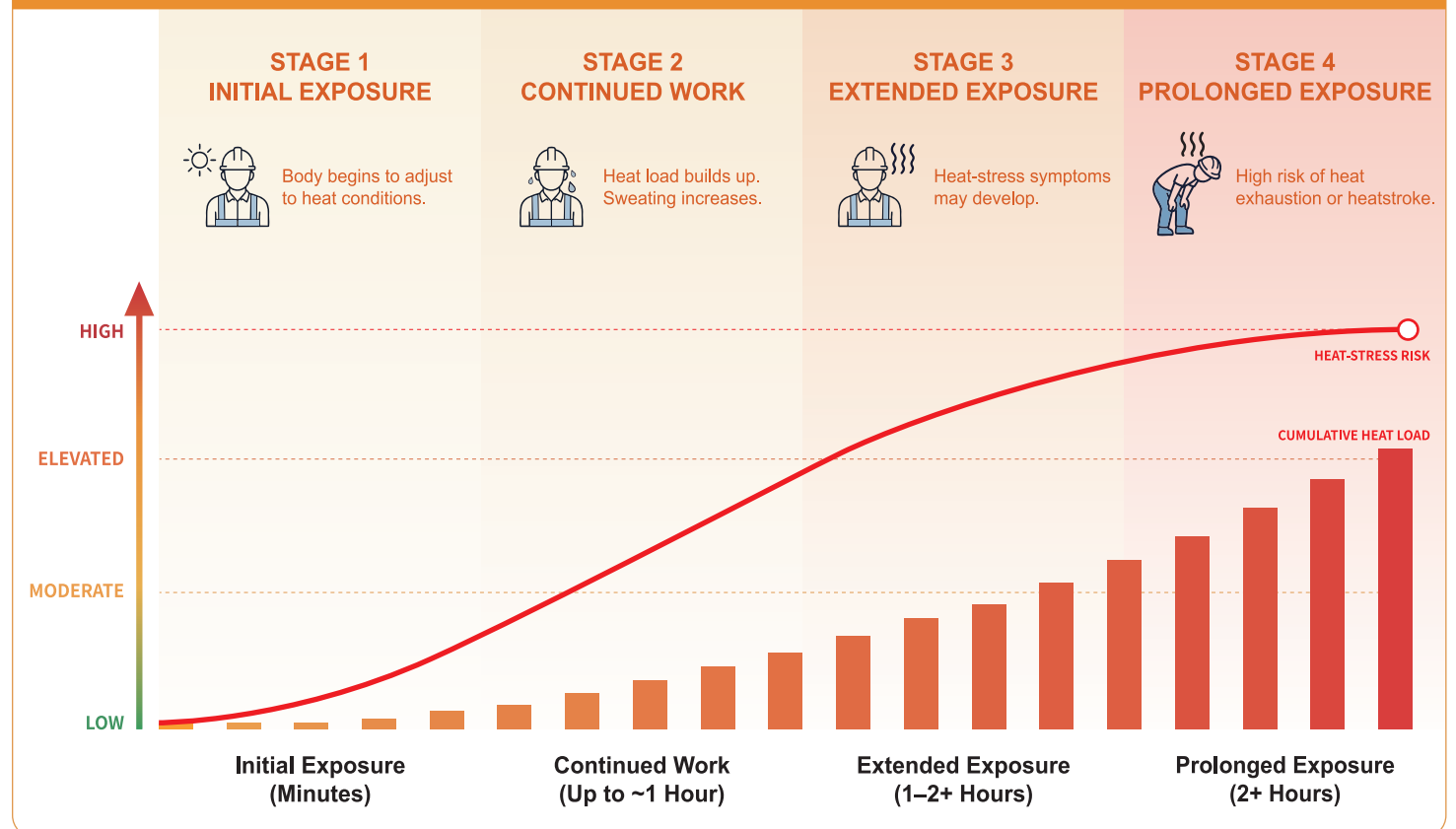
From a physiological perspective, heat stroke means the body can no longer effectively release excess heat. This can happen during prolonged exposure to hot environments, high humidity, or intense physical work. WHO describes heat stroke as a life-threatening condition involving severe hyperthermia and serious central nervous system dysfunction.



How Heat Stress Develops

Heat stress is a gradual process caused by continuous exposure to heat and physical exertion. Without timely action, it can lead to heat exhaustion or heatstroke.

DURATION OF HEAT EXPOSURE (DURATION OF HEAT EXPOSURE)



ROOTFIT

Japan

国土交通省 新技術情報提供システム
NETIS

📅 2023

Registered in Japan's NETIS System
Recognised for public works heat-risk
prevention applications, with use
cases eligible for bonus evaluation in
public works bidding projects.
Registration No.: KT-230099-VE

Japan

ひと、くらし、みらいのために
厚生労働省
Ministry of Health, Labour and Welfare

📅 2023

Referenced in Workplace Heatstroke
Prevention Case Materials
Included as a case reference for
workplace heatstroke prevention
and cooling countermeasures by
Japan's Ministry of Health,
Labour and Welfare

Australia

BHP



📅 2025

Pilot Evaluation in Western Australia
Wearable heat-risk alert wristbands
were piloted in Western Australia to
support workplace heat-stress
prevention and on-site worker safety
evaluation.

Saudi Arabia

aramco



📅 2025

Summer-Season Field Deployment
Adopted and deployed at Saudi Aramco
worksites during the 2025 summer
season to support frontline worker
heat-risk protection.

United Arab Emirates

TRACTEBEL
ENGIE



📅 2026

Procured for Industrial Field Use
Procured and deployed by Tractebel to
support workplace heat-stress
management and field worker safety
protection.

Spain

FCC



📅 2026

Selected for Environmental &
Construction Operations
Implemented by FCC to enhance
occupational health monitoring and
safeguard frontline personnel against
thermal risks.

Product Specifications

Body size : W29.8mm x H12.7mm x D52.6mm

Strap size : 22mm(w)

Material : ABS & Silicone (mesh)

Waterproof/dustproof : IP67

Alarm volume : About 70dB (20cm test distance)

Battery : Lithium polymer battery 180mAh (1 hour charge, 400 cycles)

Accessories : USB charging cable

Number of sensors : 2 (ambient temperature, skin temperature)

Risk detection temperature : Multi-level heat-risk warning mechanism

Detection interval : Continuous heat-risk monitoring

ON/OFF function : With switch

Working days : Up to 90 days (8 h/day)

*This product is not a medical device.

*Depending on usage, the battery may be exhausted quickly, so we recommend
charging according to the remaining battery power.

*This does not correspond to all physical conditions.

*Regardless of whether there is an alarm, if you feel unwell, please take a break.

*When measuring skin temperature, please keep the sensor part on the back in
close contact with the skin.

*Specifications, appearance, etc. may be changed without prior notice due to
product improvements.

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HEAT STROKE PREVENTION WRISTBAND

Stay Alert, Stay Safe. Real-time Heat Risk
Monitoring on Your Wrist.

CMZ-RF11

BUILT FOR THE TOUGHEST ENVIRONMENTS



Construction



Mining



Oil & Gas



Outdoor Work