



WORLD'S LEADING TECHNOLOGY COMPANY FOR
PERSONAL COOLING APPAREL



ABOUT **INUTEQ**

INUTEQ is world's leading company in developing & manufacturing innovative personal cooling technologies and products.

Creating the best possible solutions to keep people and animals comfortably cool and to avoid heat stress symptoms, is at the core of our DNA.

PERSONAL **COOLING**

Whether it be at work, during sports or your daily routines, you can trust to have INUTEQ at your side to keep you comfortably cool!

MAIN MARKETS



ON THE JOB



SPORTS



ANIMALS



HEALTHCARE



MOTORCYCLING



OUTDOOR




MILITARY



WELLNESS



Prof.
Dr. Thijs Eijvogels



Prof.
Dr. Julien Periard

SCIENTIFIC ADVISORY BOARD

The Scientific Advisory Board consists of two independent, recognized medical scientists, which together shape a highly important advisory body for INUTEQ.

Its primary tasks are:

To evaluate, guide and advise on new cooling technologies, strategies & applications

The Scientific Advisory Board is officially installed by INUTEQ and consists of members that come from diverse fields of research of various medical scientific institutions.



PARTNERSHIP WITH HEAT-SHIELD

INUTEQ has partnered with HEAT-SHIELD, a European Union funded consortium which consists of twelve globally renowned research facilities, dedicated to address negative impact of increased workplace heat stress.

INUTEQ will be offering free consultation worldwide for organizations with heat stress concerns, conducting heat stress trials, and reporting on findings and product suggestions with scientifically endorsed advice from HEAT-SHIELD.

Scientific research:

High temperatures also affect the workplace. This applies not only to countries already plagued by extreme heat, such as Spain and Greece, or the American southern states, but also to countries in northern Europe.

According to head of research from HEAT-SHIELD, Professor Lars Nybo, the hardest hit will be industries involving outdoor manual work or indoor work with only limited ability to provide sufficient air conditioning. The studies have shown that more work-related accidents occur when temperatures increase. The research initial results show that climate change and hot work environments could cost up to 25% of some company's productivity.

“Modern management at many companies luckily focuses on employee health as a value in itself, but the economic aspect will continue to weigh heavily,” says Nybo.

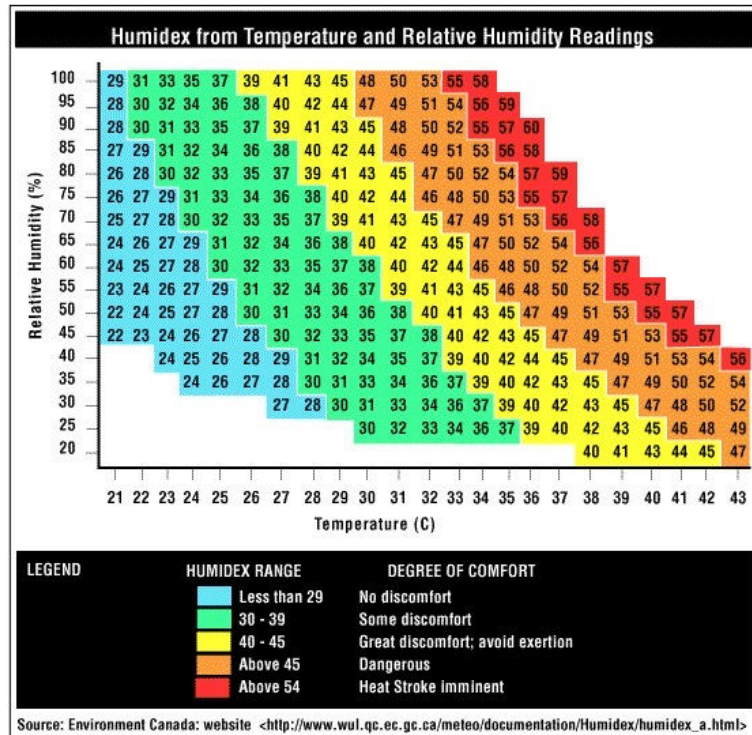


HEAT INDEX

The Heat Index is a tool to help workers / athletes know & understand when there is a likelihood of Heat Stress occurring when the temperature along with relative humidity meet certain levels.

This index is also used to help H&S supervisors and managers to plan work and extra break schedules for the workers.

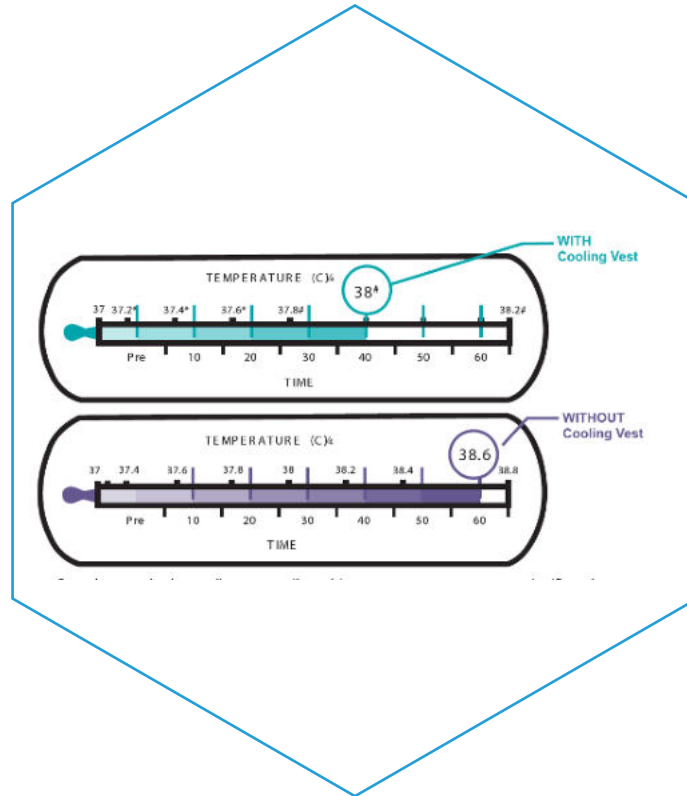
This can also help notify the people when the use of cooling apparel (cooling vests, neck shades, wrist bands etc.) are mandated through a Heat Stress program.



FACTS & FIGURES

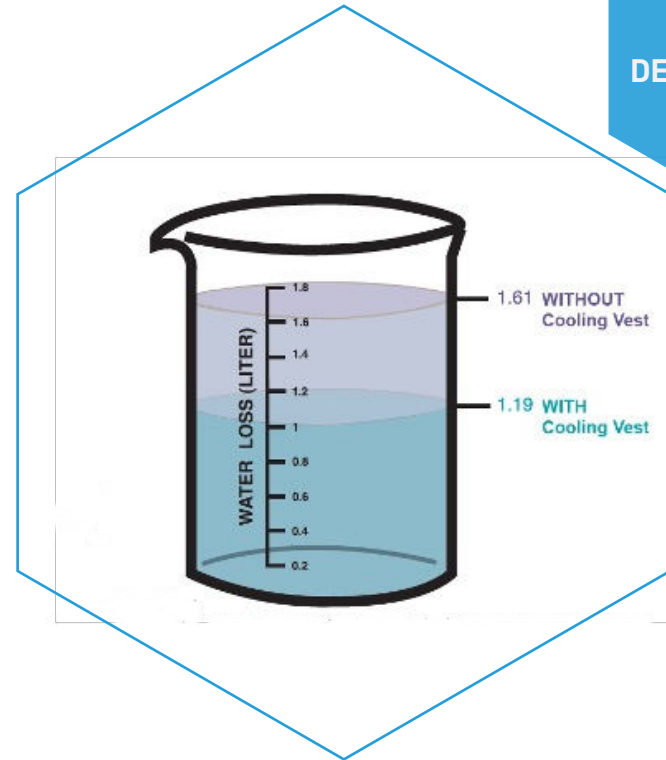
Core temperature was stabilized when wearing a cooling vest versus no vest.

CORE TEMPERATURE



Results: In the cooling vest trials, subjects core temperature was significantly reduced compared to the participants not wearing a vest.

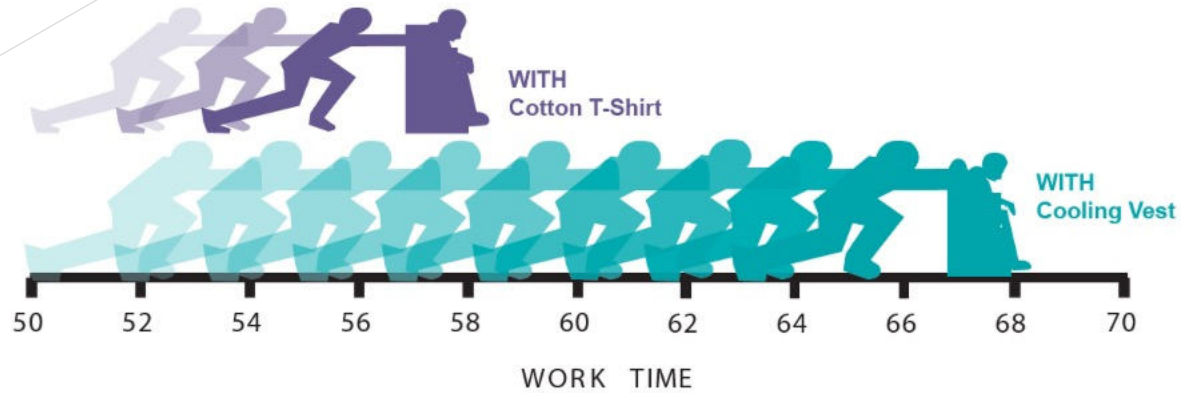
DEHYDRATION



Dehydration Cooling vests were shown to reduce the body's level of dehydration by 21%

Results: Significant difference in the weight loss (sweat loss) between the cooling vest trial (1.26 " 0.8 kg) and the no vest trials (1.63 " 0.4 kg)

ENDURANCE



FACTS & FIGURES

Wearing the cooling vest prolonged work time by an average of 16,4%, workers can do the job safer and can work longer.

Results: Wearing the vest prolonged work time by an average of 16.4%

HEAT AND PERFORMANCE

The performance data from the Weissenet performance study, states various temperatures and the related performance decrease;

Ambient temperature:

25°C : performance decrease of 3%

30°C : performance decrease of 10%

35°C : performance decrease of 18%

40°C : performance decrease of 28%

The combination of precooling and percooling technologies could be the most effective strategy to improve exercise performance in the heat', according to Dr. Thijs Eijssvogels, one of the top authorities on thermoregulation.



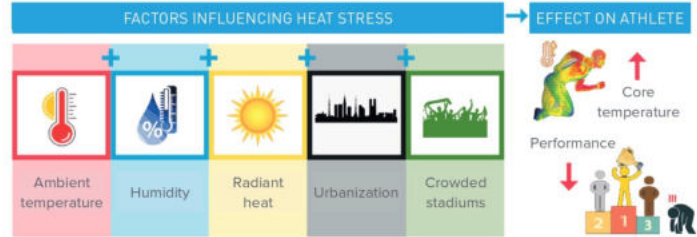
'Athletes who precool can increase performance with 5,7% ($\pm 1\%$) and with per-cooling (cooling during exercise) with 9,9% ($\pm 1.9\%$).'

* published 2015, British Journal of Sports Medicine

** Dr. Thijs M.H. Eijssvogels, Department of Physiology Radboud University Medical center - The Netherlands

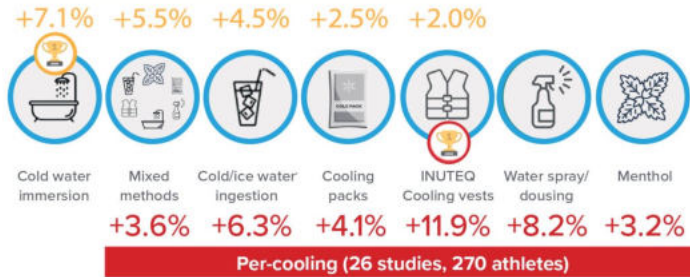
KEEP IT COOL AND BEAT THE HEAT COOLING STRATEGIES FOR EXERCISE IN HOT CONDITIONS

The ambient conditions of the Tokyo Olympics (32th Olympiad) are expected to be the most challenging ever. Increments in core temperature and associated performance loss are anticipated. Hence, athletes should consider cooling strategies.



Cooling interventions prior to (pre-cooling) and during exercise (per-cooling) significantly improve exercise performance in the heat.

Pre-cooling (45 studies, 427 athletes)



Practicing the application of cooling strategies during training and competition is highly recommended for athletes to maximally benefit from cooling interventions during the Tokyo Olympics.



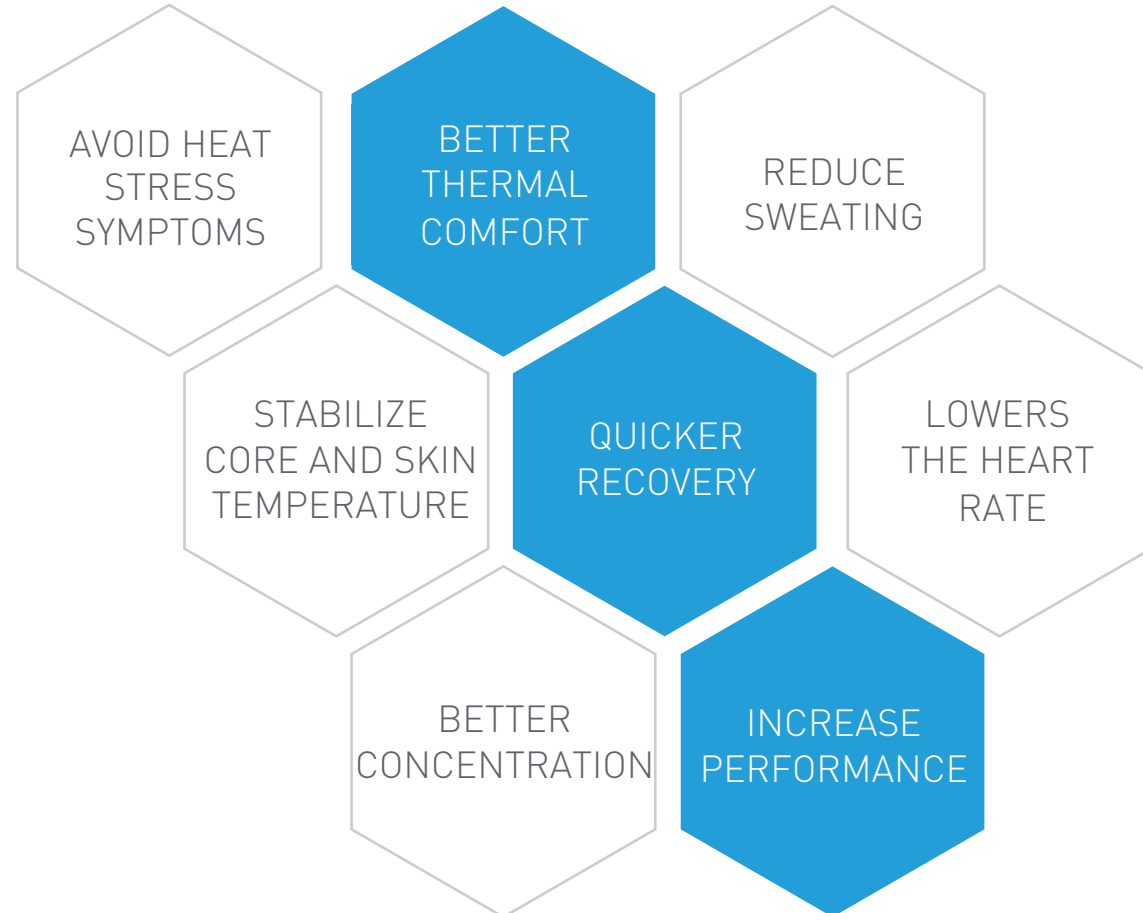
@BongersCoen
@yannickdekorte
@ThijsEijsvogels

Radboudumc
university medical center



HEAT AND PERFORMANCE

KEY BENEFITS OF WEARING COOLING APPAREL



HEAT STRESS PREVENTION TIPS



*Avoid alcohol,
coffee and soda*



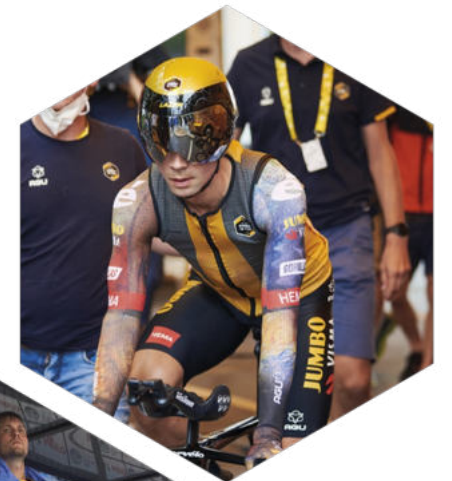
*Drink water
every hour*



*Wear personal
cooling apparel*



*Take a 15 minute
break every 2 hours*





WORLDWIDE PARTNERS & CUSTOMERS



PERSONAL **COOLING** TECHNOLOGIES



HELP ME CHOOSE WHICH COOLING SOLUTION IS THE BEST FOR ME

Check here which technology and related product work best for your personal application and in which environmental condition.

	Effective cooling time during average use	Does it perform well							Suitable for high activity	Requirements to activate
		in warm conditions under 40°C / 104°F	in hot conditions above 40°C / 104°F	in low-mid humid conditions	in high humid conditions	underneath breathable garments	underneath hazmat / airtight suits	without airflow		
DRY®	Up to 72 hours	✓	Low	✓	Low	✓	✗	✗	✗	Tap Water
H2O®	Up to 8 hours	✓	Low	✓	Low	✓	✗	✗	✓	Tap Water
PVA®	Up to 4 hours	✓	✓	✓	✓	✓	✗	Low	✓	Tap Water
OCK®	Up to 1 hour	✓	✓	✓	✓	✓	✗	Low	✓	Tap Water
PAC® 6,5°C / 44°F	Up to 2 hours	✓	✓	✓	✓	✓	✓	✓	✓	Freezer
PAC® 15°C / 59°F	Up to 2,5 hours	✓	✓	✓	✓	✓	✓	✓	✓	Freezer/Fridge/Ice Water or in temp<10°C / 50°F
PAC® 21°C / 70°F	Up to 3 hours	✓	✓	✓	✓	✓	✓	✓	✓	Freezer/Fridge/Ice Water or in temp<19°C / 66°F
PAC® 24°C / 75°F	Up to 3,5 hours	✓	✓	✓	✓	✓	✓	✓	✓	Freezer/Fridge/Ice Water or in temp<21°C / 70°F
PAC® 29°C / 84°F	Up to 4,5 hours	✓	✓	✓	✓	✓	✓	✓	✓	Freezer/Fridge/Ice Water or in temp<26°C / 79°F



INDUSTRIAL SAFETY

TECHNOLOGY



HEALTHCARE

ANIMALS



MOTOR CYCLING



HOW DOES IT WORK



JUST FILL THE PRODUCT WITH (TAP) WATER



ENJOY IMMEDIATE COOLING



DISTRIBUTE THE WATER EVENLY AND SQUEEZE OUT ANY EXCESS WATER



PRODUCTS



HOW DOES IT WORK



JUST FILL THE PRODUCT WITH (TAP) WATER



ENJOY IMMEDIATE COOLING



DISTRIBUTE THE WATER EVENLY AND SQUEEZE OUT ANY EXCESS WATER

PERSONAL **COOLING** TECHNOLOGIES





INDUSTRIAL SAFETY

TECHNOLOGY



SPORTS

OUTDOOR RECREATION



MOTOR CYCLING



HOW DOES IT WORK



JUST SOAK
IN WATER FOR
TWO MINUTES



ENJOY
IMMEDIATE
COOLING



GENTLY SQUEEZE OUT
ANY EXCESS WATER



PRODUCTS



HOW DOES IT WORK



JUST SOAK
IN WATER FOR
TWO MINUTES



ENJOY
IMMEDIATE
COOLING



GENTLY SQUEEZE OUT
ANY EXCESS WATER

PERSONAL **COOLING** TECHNOLOGIES





TECHNOLOGY



HOW DOES IT WORK



JUST SOAK
IN WATER FOR
ONE MINUTE



ENJOY
IMMEDIATE
COOLING



GENTLY SQUEEZE
OUT EXCESS WATER



UNIQUE
technology
FORMULA



PRODUCTS



HOW DOES IT WORK



JUST SOAK
IN WATER FOR
ONE MINUTE

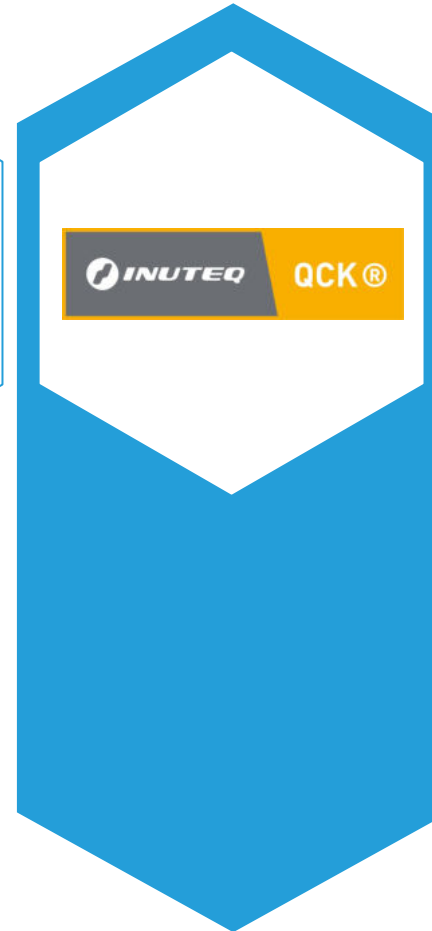


ENJOY
IMMEDIATE
COOLING



GENTLY SQUEEZE
OUT EXCESS WATER

PERSONAL **COOLING** TECHNOLOGIES





TECHNOLOGY



HOW DOES IT WORK



JUST SOAK IN WATER FOR 30 SECONDS



SNAP IT



GENTLY SQUEEZE OUT EXCESS WATER



PRODUCTS



HOW DOES IT WORK



JUST SOAK IN WATER FOR 30 SECONDS



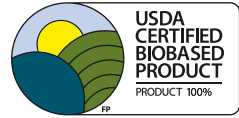
SNAP IT



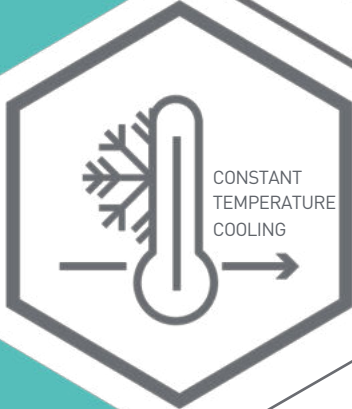
GENTLY SQUEEZE OUT EXCESS WATER

PERSONAL **COOLING** TECHNOLOGIES





TECHNOLOGY



AVAILABLE IN 5 DIFFERENT TEMPERATURES:

- 6,5°C / 44°F
- 15°C / 59°F
- 21°C / 70°F
- 24°C / 75°F
- 29°C / 84°F

HOW DOES IT WORK



COOL THE PACK



ENJOY CONSTANT COOLING



INSERTS INTO GARMENTS POCKET



PRODUCTS



HOW DOES IT WORK



COOL THE
PACK



ENJOY
CONSTANT
COOLING



INSERTS INTO
GARMENTS POCKET

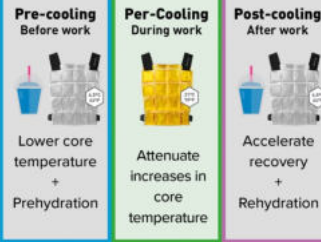
COOLING STRATEGIES TO ATTENUATE PPE-INDUCED HEAT STRAIN DURING THE COVID-19 PANDEMIC

Thermoregulatory challenges

Personal Protective Equipment (PPE) creates a microclimate around the skin that reduces the heat loss capacity

Healthcare personnel work longer shifts and care for more patients than usual, resulting in an elevated heat production

Cooling strategies & Effects



Consequences

Core temperature ↑
Thermal discomfort ↑↑
Sweat rate ↑↑
Dehydration ↑↑



Consequences

Thermal strain ↓
Thermal discomfort ↓↓
Cardiovascular strain ↓↓
Dehydration ↓↓

Cooling strategies must be

- Safe and hygienic
- Rapidly scalable and accessible for every hospital
- Easy to implement in clinical settings

Beneficial effects of cooling

- Extends work tolerance time
- Improves physical and cognitive performance
- Improves recovery and reduces fatigue

TNO

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Radboudumc
university medical center



MEDICAL

THE NEW PRODUCT LINE FROM INUTEQ® FOCUSING ON
BURNING FAT AND INCREASING METABOLISM BY COOLING

cool2shape™

calorie burn by cooling

The science: Cooling Vests stimulate Brown Adipose Tissue (brown fat) causing the consumption of calories.

The science is backed by numerous international studies, scientific research and tests. Several studies mention the importance of brown fat and the potential of cold exposure to prevent increase in body weight.



100% biobased PCM technology
15°C / 59°F

THE NEW PRODUCT LINE FROM INUTEQ® FOCUSING ON BURNING FAT AND INCREASING METABOLISM BY COOLING



LEG WRAP



WAIST WRAP



ARM WRAP



100% biobased PCM technology 15°C / 59°F

cool2shape™
calorie burn by cooling



BRANDING PRODUCTS

PRODUCTION FACILITIES





ARE YOU GONNA
BE OUR NEW
COOL PARTNER?

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