
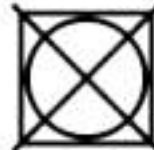





Dr. Chill – Nano-Chill™ product specification



Model: NC-001/ DrChill CRYO

Product overview: Style NC-001/DrChill CRYO with Nano-Chill™ Technology uses advanced super-absorbent materials (SAMs) that absorb and retain water to deliver rapid and long-lasting cooling through controlled evaporation. Integrated ChillLock™ Technology positions cooling elements for optimal body contact, airflow, and performance.

<p>1 Product Identification</p> <ul style="list-style-type: none"> • Product Name: DrChill CRYO • Style Number: NC-001 • Product Type: Passive Evaporative Body Cooling Garment • Cooling Technology: Nano-Chill™ (Super-Absorbent Material Based) • Positioning System: Integrated ChillLock™ Technology • Intended Use: Heat stress mitigation 	<p>5 Cooling Performance</p> <ul style="list-style-type: none"> • Immediate evaporative cooling upon activation. <p>Optional pre-chill:</p> <ul style="list-style-type: none"> • Refrigerator: 30 minutes for intensified initial cooling. • Freezer (follow instructions): 60 minutes for maximum initial cooling. After the pre-chill phase, the vest automatically returns to evaporative cooling mode <p>Hybrid option:</p> <ul style="list-style-type: none"> • Combine with active ventilation (Aero-Chill™)
<p>2 Cooling Technology Description</p> <p>2.1 Nano-Chill™ Technology Nano-Chill™ utilizes advanced Super-Absorbent Materials (SAMs) engineered to absorb and retain water. Cooling is generated through controlled evaporation when exposed to airflow and elevated temperatures.</p> <ul style="list-style-type: none"> • Cooling Principle: Evaporative cooling • Activation Medium: Water only • Reusable: Yes • Non-toxic materials: Yes (subject to material supplier certification) <p>2.2 ChillLock™ Technology Integrated structural positioning system ensuring:</p> <ul style="list-style-type: none"> • Optimized body contact • Balanced weight distribution • Maintained airflow pathways • Consistent cooling performance 	<p>6 Performance Characteristics</p> <ul style="list-style-type: none"> • Cooling Duration: 24 to 48 hours (environment dependent) • Reactivation: Unlimited cycles (subject to proper care) • Optimal Conditions: High temperature + airflow • Performance Influencers: <ul style="list-style-type: none"> a. Ambient temperature b. Relative humidity c. Air movement d. Physical workload
<p>3 Material Specification</p> <p>3.1 Outer Fabric</p> <ul style="list-style-type: none"> • Material: 100% NYLON TASLAN 228T • Fabric Weight: 135 g/m² <p>3.2 Cooling Core</p> <ul style="list-style-type: none"> • Material Type: Super-Absorbent Material (SAM) polymer matrix • Encapsulation: Sealed multi-layer textile chambers under the registered Dr. Chill design architecture and ChillLock™ Technology • Activation: Water absorption <p>3.3 Inner Fabric</p> <ul style="list-style-type: none"> • Material: 100% NYLON TASLAN 228T • Fabric Weight: 135 g/m² <p>3.4 Knitted sidepanel(s)</p> <ul style="list-style-type: none"> • Material: 90% Nylon - 10% Spandex • Fabric Weight: 220 g/m² 	<p>7 Laundry instructions ONLY USE NATURAL SOAP</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  Hand wash only </div> <div style="text-align: center;">  Do not dry clean </div> <div style="text-align: center;">  Do not iron </div> <div style="text-align: center;">  Do not wring </div> <div style="text-align: center;">  Hang to dry </div> </div>
<p>4 Activation guidelines</p> <p>SUBMERGE > Fully immerse product in clean (tap) water.</p> <p>SOAK > 30/45 minutes for full SAP hydration.</p> <p>GENTLY SQUEEZE > Remove excess surface water. > Do not wring or twist.</p> <p>TOWEL ROLL > Roll in towel for 10 minutes. > Hydrated, not dripping.</p> <p>READY TO USE > Product is activated and ready to wear.</p> <p>WEIGHT after activation: Approx. 700 – 800 g</p> <p>Reactivation Re-immerses the vest in water for 45 minutes, gently squeeze out excess water, roll in a towel to remove surface moisture, and reuse.</p>	<p>8 DRYING</p> <p>Hang to air dry Ventilated area Fully dry before storage ⚠ Do not machine dry unless label permits</p>
	<p>10 Storage</p> <p>Short-Term</p> <ul style="list-style-type: none"> • Cool, dry place • Clean & dry <p>Long-Term</p> <ul style="list-style-type: none"> • Fully dry first • Store flat or hung • Avoid sealed plastic when damp
	<p>11 Safety</p> <ul style="list-style-type: none"> • Non-toxic • Non-electrical • External use only • Do not puncture chambers/gelpockets • Discontinue if damaged • Keep away from children
	<p>12 Declaration</p> <p>This product is designed as a passive evaporative cooling aid for heat stress mitigation. Compliance with specific international standards depends on final garment configuration and certified material selection</p>
	<p>13 Contact your authorized Dr Chill distributor or sales representative, or visit the DrChill website for more information.</p>

Dr. Chill – Nano-Chill™ product specification



Model: NC-001/ DrChill CRYO

Product overview: Style NC-001/DrChill CRYO with Nano-Chill™ Technology is engineered for demanding heat environments, offering an ergonomic fit with optimized airflow and weight distribution through its proprietary ChillLock™ chamber architecture for consistent, body-focused cooling performance.

Size specifications



All measurements in cm

Measurements	XS	S	M	L	XL	2XL	3XL	4XL	5XL
Full chest	88	94	100	106	112	118	124	130	136
Full Length	54	56	58	60	62	64	66	68	70

Design, size & Performance Philosophy : Dr. Chill's size specifications, Chill Lock™ Technology, and registered pattern architecture form a protected proprietary design system. Built on the principle that human-body fit drives thermal performance, this anatomy-driven, sealed construction platform is engineered to optimize conformity, stability, and cooling efficiency in industrial environments.



Key benefits Nano-Chill™ Technology:



- Immediate cooling relief
- Long-lasting cooling effect
- Targeted cooling zones
- Ventilation tunnel system for enhanced airflow
- Best-in-class cooling duration – up to 48 hours
- Lightweight & flexible design
- Reusable – reactivates with water
- Safe & eco-friendly (non-toxic, non-electrical)
- Compatible with ice-based cooling for enhanced performance

Dr Chill's Differentiation logic



Customization Options — Dr Chill Cooling Vests



We tailor cooling garments to match your operational needs, brand identity, and safety requirements—without compromising performance.

Customization possibilities include:

- Company & team branding
- Custom colors and visual identity
- Private label production
- Fabric finishes such as:
 - AS (Anti-Static)
 - AB (Anti-Bacterial)
 - QD (Quick Dry)
- High-Visibility adaptations
- Certification support for regulated environments

NANO-CHILL™ Cooling Vests — Application Overview

NANO-CHILL™ cooling products are engineered to deliver effective, long-lasting body cooling in environments where heat stress impacts performance, safety, and comfort. Built on advanced evaporative cooling technology, the vests use super-absorbent materials that retain water and release cooling through controlled evaporation. This creates a sustained cooling effect directly at the body's primary heat zones—without the need for power or bulky inserts.

Where NANO-CHILL™ Makes the Difference:

Industrial use



Ideal for workers exposed to high temperatures, including construction, logistics, manufacturing, mining, agriculture, and utilities. The vest helps reduce heat strain, supporting endurance, focus, and safety compliance during long shifts.

Professional & elite sports



Used for pre-cooling, recovery, and training in hot climates. Athletes benefit from regulated body temperature, delayed fatigue, and improved thermal comfort without restricting movement.

Emergency & defense services



Suitable for firefighters, military personnel, and first responders operating in protective gear where heat buildup is critical.

Outdoor & lifestyle activities



Perfect for hiking, cycling, motorsports, events, and recreational use in warm environments.

Medical & personal heat sensitivity



Provides non-electrical cooling support for individuals sensitive to heat, including elderly users or those managing heat-related conditions.

Why it works



By combining targeted cooling zones, human-fit garment design, and lightweight flexibility, NANO-CHILL™ vests promote real-world wearability and compliance—ensuring cooling is not just available, but actually used.

Result



Improved comfort • Reduced heat stress risk • Sustained performance