

A person in a white tactical suit and helmet stands next to a white Arctic Cat snowmobile in a snowy field. The person is holding a rifle and looking towards the camera. The snowmobile is white with black accents and has a large windshield. The background is a snowy field with some bare trees in the distance under a clear blue sky.

# Arktis<sup>®</sup>

ELITE

ECW LINE SHEET

PRE-ORDER





## // ABOUT US

In 1985, a former Royal Marine founded Arktis with a mission to create superior military gear. Today, Arktis continues to produce specialist clothing and equipment for military and Law Enforcement, staying true to the “**Quality of Endurance**” motto established in the 1980s.

At Arktis, our approach to design is driven by real world experience from tier one operators. We design, prototype, and refine our products in-house in the UK to ensure the highest quality, fuelling our passion for innovation. Arktis products evolve through incremental, operator-driven improvements.

We are proud of our history and excited for the future, and we look forward to sharing our next breakthroughs and supporting our Military and Law Enforcement partners across the Globe. Our in-house R&D lab and UK manufacturing facilities offer operators a unique opportunity to collaborate on exclusive projects and tailor-made solutions with the Arktis team. Advanced design, combined with technical fabric innovation, enables us to develop cutting-edge products that embody our design ethos: **Fabric, Fit, Function**.





## COLD WEATHER LAYERING SYSTEM

- Engineered with a low-bulk profile and an accommodating fit, the system doesn't restrict movement.
- Built to shield the wearer across a wide range of severe cold-weather conditions while maintaining comfort during prolonged use.
- Thermal management helps to minimise sweat build-up and maintain a stable internal climate.
- Each element within the system is purpose designed to function cohesively together.

### SYSTEM LAYERS- TEMPERATURE RANGES

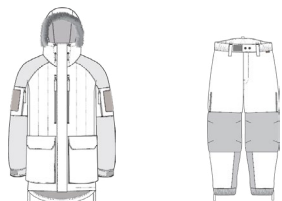
#### BASE LAYER +5° C DOWN TO 0° C



#### MID LAYER 0° C DOWN TO -20° C



#### OUTER LAYER -20° C DOWN TO -50° C



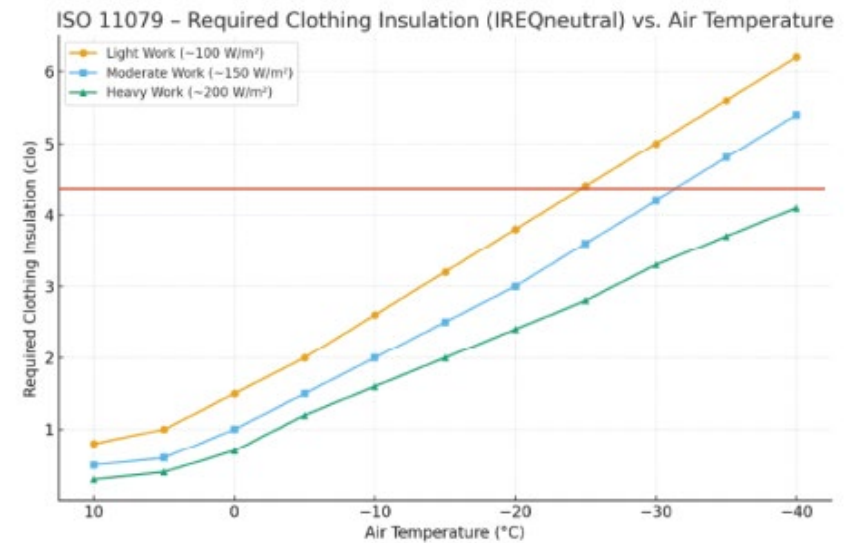
## THERMAL INSULATION INFORMATION

### WHAT ARE CLO VALUES

CLO is a unit of measurement of thermal insulation

1 CLO = the amount of insulation needed to keep a person comfortable sitting indoors at around 21°C (70°F).

Below is an overview of required warmth values by temperature based on ISO11079. You will see the W/m<sup>2</sup> (metabolic heat production rate) that this chart is using.



Our extreme cold weather range uses 220g insulation with a CLO value of 4.38.

The garment's thermal insulation will provide comfort in as low as -20 °C during light activity. (Standing Guard, Slow patrol)

The garment's thermal insulation will provide comfort between -20 °C and -30°C during moderate activity. (Walking)

This garment's thermal insulation will provide comfort as low as -40 °C during heavy activity. (Running, Skiing)

This garment's insulation properties will provide comfort in -50 when the wearer is doing heavy work for limited periods of time. according to ISO11079 data. When paired with a thermal vest of 1 clo, this garment will provide comfort at low as -50 degrees during medium activity level.

**To note:** These are estimated values based on data from ISO 11079, ISO11092, ISO15831 and Leeds University studies. Safe Exposure duration (Dlim) needs to be taken into consideration. Influencing factors such as wind chill, wind speed, activity level, humidity can all effect the required thermal insulation needed. Human comfort levels vary from person to person because factors like sweat production and metabolic energy output differ. When a person generates more metabolic heat through physical activity or has higher sweat rates, their body's thermal balance changes, which affects how warm or cool they feel in the same environment.



## MID LAYER 0° C DOWN TO -20° C



### // ECW VEST

**PRODUCT CODE:** DV147

**SIZES:** XS - 3XL

**GARMENT WEIGHT:** 571g (size L)

**FABRIC:** 100% Nylon / DWR

**FIT:** Classic Fit

**FUNCTION:** The DV147 ECW Vest is designed for extreme cold, with focused baffle placement to optimise heat regulation. This vest is lightweight, highly adjustable and cold and snow resistant. Designed to be worn as a mid layer or paired with DV146 ECW Jacket for unstoppable warmth.

#### KEY FEATURES:

- Lightweight water resistant Nylon
- Chest and Back panel with vertical baffles
- Adjustable Hem
- Hand Pockets and internal pocket



WATER RESISTANT FABRIC



WIND-PROOF FABRIC



CLO 220GM INSULATION

**MULTICAM - GOVERNMENT CONTRACT ONLY RRP:** £295.00\*

**SOLID COLOUR RRP:** £185.00\*



## MID LAYER 0° C DOWN TO -20° C



### // ECW JACKET

**PRODUCT CODE:** DV146

**SIZES:** XS - 3XL

**GARMENT WEIGHT:** 1313g (size L)

**FABRIC:** 100% Nylon / DWR

**FIT:** Classic Fit

**FUNCTION:** The DV146 ECW Jacket is designed for extreme cold, with focused baffle placement to optimise heat regulation. This jacket is lightweight, highly adjustable and cold and snow resistant.

#### KEY FEATURES:

- Lightweight water resistant Nylon
- Chest & Back panel with vertical baffles
- Cordura abrasion Panels
- Adjustable Hem
- Fully adjustable Hood



WATER RESISTANT FABRIC



WIND-PROOF FABRIC



CLO 220GM INSULATION

**MULTICAM - GOVERNMENT CONTRACT ONLY RRP:** £495.00\*

**SOLID COLOUR RRP:** £350.00\*





**OUTER LAYER -20° C DOWN TO -50° C**

CLO INSULATION - COMFORT DOWN TO -50°C WHEN USING LAYERING SYSTEM & DOING MODERATE ACTIVITY

ZIPPED SLEEVE POCKETS WITH LOOP VELCRO PATCH

CHEST PANELS WITH VERTICAL BAFFLES TRAPS WARM AIR EFFICIENTLY

CORDURA - ABRASION RESISTANT LOWER SLEEVE

SIDE SEAM ZIPPERS

THREE -WAY ADJUSTABLE PEAKED HOOD WITH REMOVABLE FUR TRIM

CORDURA - ABRASION RESISTANT SHOULDER PANELS

ZIPPED CHEST POCKETS

ZIPPED CLOSURE WITH STORM FLAP

LARGE WAIST POCKETS WITH BUTTON CLOSURE



## // ECW PARKA

**PRODUCT CODE:** DV240

**SIZES:** XS - 3XL

**GARMENT WEIGHT:** 2179g (size L)

**FABRIC:** 100% Nylon / DWR

**FIT:** Classic Fit

**FUNCTION:** The DV240 ECW Parka is designed for extreme cold, with focused baffle placement, 220g insulation as well as zippered vents to optimise heat regulation. Featuring a fur hood lining, internal pockets with large glove friendly zippers, this jacket is lightweight, abrasion resistant, highly adjustable and cold and snow resistant.

**MULTICAM - GOVERNMENT CONTRACT ONLY RRP:** £750.00\*

**SOLID COLOUR RRP:** £495.00\*

### KEY FEATURES:

- Lightweight water resistant Nylon
- Side seam zippers up to waist
- Cordura shoulder and elbow reinforcement
- Adjustable waist and hood
- Zippered Bicep Pockets
- Internal show skirt and storage



WATER RESISTANT FABRIC



WIND-PROOF FABRIC



CLO 220GM INSULATION

COMB BLZ

MULTICAM

RANGER GREEN

LINE SHEET

\*Prices subject to change





OUTER LAYER -20° C DOWN TO -50° C



## // ECW TROUSERS

**PRODUCT CODE:** DV148

**SIZES:** XS - 2XL

**GARMENT WEIGHT:** 1096g (size L)

**FABRIC:** 100% Nylon / DWR

**FIT:** Classic Fit

**FUNCTION:** The DV148 ECW Trousers are designed for extreme cold, with zippered venting heat dumping capability and 220g Wadding to optimise heat regulation. These trousers are lightweight, durable, cold and snow resistant.

### KEY FEATURES:

- Lightweight water resistant Nylon
- Side seam zippers up to back yoke
- Cordura knee and instep abrasion panels
- Zippered Gusset Vent
- Elasticated waistband



WATER RESISTANT FABRIC



WIND-PROOF FABRIC



CLO 220GM INSULATION

**MULTICAM - GOVERNMENT CONTRACT ONLY RRP:** £450.00\*

**SOLID COLOUR RRP:** £290.00\*

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\*Prices subject to change







OUTER LAYER -20° C DOWN TO -50° C



## // ECW MITT

**PRODUCT CODE:** DV257

**SIZES:** S - XL

**GARMENT WEIGHT:** 233g (size L)

**FABRIC:** 100% Nylon / DWR

**FIT:** Classic Fit

**FUNCTION:** The DV257 ECW Mitt is designed for extreme cold, with Polartec fleece lining, 80g insulation as well as waterproof Nylon outer fabric. Featuring leather reinforced palm and finger tips, adjustable wrist and large glove friendly pullers these gloves are highly adjustable and cold and snow resistant.

### KEY FEATURES:

- Lightweight water resistant Nylon
- Separate thumb and trigger fingers to maintain dexterity
- Adjustable at wrist and hem
- Reinforcement to the palm and fingertips
- Glove friendly puller



WATER RESISTANT FABRIC



WIND-PROOF FABRIC



CLO 220GM INSULATION

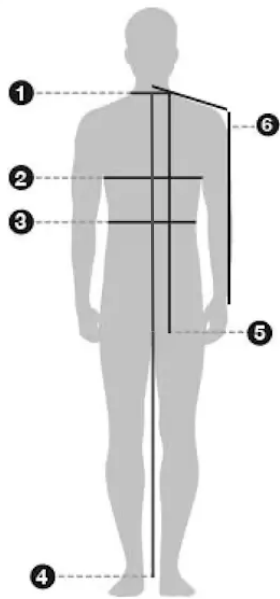
**MULTICAM - GOVERNMENT CONTRACT ONLY RRP:** £95.00\*

**SOLID COLOUR RRP:** £75.00\*

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\*Prices subject to change



**1. COLLAR**

measure around the base of the neck where the collar sits.

**2. CHEST**

measure the chest at the fullest part, placing the tape close up under the arms.

**3. WAIST**

measure the natural waistline.

**4. INSIDE LEG**

measure from the crotch to where your trouser is normally worn on the shoe.

**5. BODY LENGTH**

To determine top length requirements, measure from the centre back of your neck line to the natural hemline. Jacket lengths vary depending on the style or the fit of the garment.

**6. SLEEVE LENGTH**

Stand with your arm raised and bent 90 degrees at the elbow

1. Start with the tape at the nape of your neck, measure across to your shoulder

2. Continue from your shoulder down to your elbow

3. And finally from your elbow to the bone in your wrist

Please note that the tables below refer to the garment measurements, not the body measurements of the wearer.

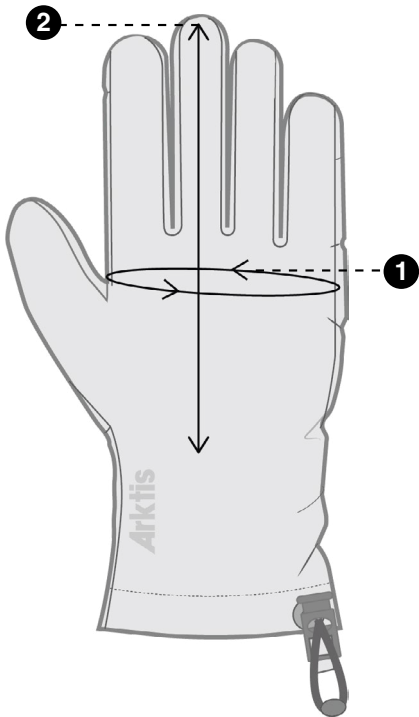
| DV147<br>ECW VEST               | XS    | S     | M      | L     | XL     | 2XL   | 3XL    |
|---------------------------------|-------|-------|--------|-------|--------|-------|--------|
| <b>BACK<br/>BODY<br/>LENGTH</b> | 66.5M | 69CM  | 71.5CM | 74CM  | 76.5CM | 79CM  | 81.5CM |
| <b>CHEST</b>                    | 106CM | 111CM | 116CM  | 121CM | 126CM  | 131CM | 136CM  |

| DV148<br>ECW PANT     | XS    | S     | M     | L     | XL    | 2XL   | 3XL   |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|
| <b>WAIST</b>          | 78CM  | 83CM  | 88CM  | 93CM  | 98CM  | 103CM | 108CM |
| <b>HIP</b>            | 114CM | 119CM | 124CM | 129CM | 134CM | 139CM | 144CM |
| <b>INSIDE<br/>LEG</b> | 86CM  | 86CM  | 86CM  | 86CM  | 86CM  | 86CM  | 86CM  |

| DV146<br>ECW JACKET             | XS     | S      | M      | L      | XL     | 2XL    | 3XL    |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|
| <b>BACK<br/>BODY<br/>LENGTH</b> | 69.5CM | 72CM   | 74.5CM | 77CM   | 79.5CM | 82CM   | 84.5CM |
| <b>CHEST</b>                    | 110CM  | 115CM  | 120CM  | 125CM  | 130CM  | 135CM  | 140CM  |
| <b>SLEEVE<br/>LENGTH</b>        | 80.5CM | 82.5CM | 84.5CM | 86.5CM | 88.5CM | 90.5CM | 92.5CM |

| DV240<br>ECW PARKA              | XS    | S     | M     | L     | XL    | 2XL   | 3XL   |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|
| <b>BACK<br/>BODY<br/>LENGTH</b> | 92CM  | 94CM  | 96CM  | 98CM  | 100CM | 102CM | 104CM |
| <b>CHEST</b>                    | 117CM | 125CM | 133CM | 141CM | 149CM | 157CM | 165CM |
| <b>SLEEVE<br/>LENGTH</b>        | 82CM  | 84CM  | 86CM  | 88CM  | 90CM  | 92CM  | 94CM  |





**1. HAND CIRCUMFERENCE**

Measure the circumference around the knuckles of your four fingers.

**2. HAND LENGTH**

Measure from the base of the wrist to the tip of your middle finger.

Please note that the table below refers to body measurements, not the garment measurements.

| DV257<br>ECW GLOVE | S           | M         | L         | XL        |
|--------------------|-------------|-----------|-----------|-----------|
| HAND CIRCUMFERENCE | 18-19CM     | 20-21.5CM | 23-24CM   | 24-25.5CM |
| HAND LENGTH        | 16.5 - 18CM | 19 - 20CM | 21.5-23CM | 23-24CM   |

The ECW Glove is designed to be worn as an Over-Mitt with up to two pairs of gloves underneath. You do not need to size up to accommodate layers worn underneath, please choose your normal size.



// FABRIC INFORMATION

MULTICAM

Test Report

|                                                                                  |                                                      |                                                                                                                                 |                            |                              |            |
|----------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------------------|------------------------------|------------|
| CustomerName                                                                     |                                                      |                                                                                                                                 |                            |                              |            |
| OrderNo.                                                                         |                                                      | Color                                                                                                                           | Multicam                   | PatternNo.                   |            |
| CustomerPatternNo.                                                               |                                                      | Weave                                                                                                                           |                            | Composition                  |            |
| CustomerOrderNo.                                                                 |                                                      | Width                                                                                                                           | 154.5                      | Weight                       | ≥95        |
| Strech                                                                           |                                                      | Static                                                                                                                          |                            | Peach finish                 | No         |
| Construction N(6) 70D*160D 149*66 63* 1/1平纹                                      |                                                      |                                                                                                                                 |                            |                              |            |
| Item                                                                             | Test Method                                          | Evaluation Dimension                                                                                                            | Requirement                | Result                       | Assessment |
| Infrared<br>EN ISO 105-J01:1989                                                  |                                                      | Spectral reflectance rate (percent%)                                                                                            | Please see                 |                              |            |
| Colorfastness to washing (cotton staining)<br>ISO 105-C10:2006(原ISO 105 C01-C05) | C(2)60°C                                             | Color Change (Grade)<br>Polyester Staining (Grade)<br>Cotton Staining (Grade)                                                   | 4<br>4<br>4                | 4<br>4<br>4                  |            |
| Colourfastness to washing (multifiber)<br>AATCC 61-2013                          | 2A(49°C)                                             | Color Change (Grade)<br>Cotton Staining (Grade)                                                                                 | 4<br>4                     | 4<br>4                       |            |
| Colourfastness to rubbing<br>ISO 105 X12:2016                                    |                                                      | Dry Rubbing (Grade)<br>Wet Rubbing (Grade)                                                                                      | 4<br>3                     | 4-5<br>3-4                   |            |
| Colourfastness to light<br>AATCC 16.3-2014                                       | Colorfastness to artificial light<br>Xenon arc 20AFU | Color Change (Grade)                                                                                                            | 4                          | 4                            |            |
| Colourfastness to perspiration<br>AATCC 15-2013                                  |                                                      | Acetate (Grade)<br>Cotton (Grade)<br>Polyamide (Grade)<br>Polyester (Grade)<br>Acrylic (Grade)<br>Wool (Grade)<br>Color (Grade) | 4<br>4<br>4<br>4<br>4<br>4 | 4<br>4<br>3-4<br>4<br>4<br>4 |            |
| Tensile strength<br>ASTM D 5034:2017                                             | grab method                                          | Warp (N)<br>Weft (N)                                                                                                            | ≥623<br>≥623               | 904<br>581                   |            |
| Tear strength<br>ASTM D 2261:2013                                                | trousershaped test                                   | Warp (N)<br>Weft (N)                                                                                                            | ≥17.8<br>≥17.8             | 27.8<br>19.3                 |            |
| PH value<br>AATCC 81-2016                                                        |                                                      | PH value (V)                                                                                                                    | 4-7.5                      | 7.06                         |            |
| Width<br>ASTM D 3774-1996                                                        |                                                      | Full Width (self-edge to self-edge) (cm)                                                                                        | 154.5                      | 155.5                        |            |
| Shrinkage<br>AATCC 135-2018                                                      | III(41±2°C) 1 Wash<br>A-Tumbledry<br>One timedry     | Warp (%)<br>Weft (%)                                                                                                            | 3.0<br>3.0                 | -2<br>-0.6                   |            |

Fabric Data Sheet

RANGER GREEN

COMB BLIZ

|                |                                  |                       |                |
|----------------|----------------------------------|-----------------------|----------------|
| Basic Data     | Item name(Article no)            | SFY055-1              |                |
|                | Fabric type                      | PLAIN                 |                |
|                | Fabric Composition               | 100% N                |                |
|                | Usable width(inch)               | 57"                   |                |
|                | Finish                           | C6 WR                 |                |
|                | Weight                           | 130GSM                |                |
|                | Construction (warp)              | 70D                   |                |
|                | Construction (weft)              | 160D                  |                |
|                |                                  |                       |                |
| Color Fastness | Color Fastness To Washing        | ISO 105 C06           | 4              |
|                | Color Fastness To Water          | ISO 105 E01           | 4              |
|                | Color Fastness To Rubbing        | ISO 105 X12           | 4-5/4-5        |
|                | Dimensional Stability To Washing | ISO 6330              | +/-3%          |
| Physical Test  | Spray Test                       | ISO4920               | 4              |
|                | Tensile strength                 | ISO 13934-1           | 824/652N       |
|                | Tear strength                    | ISO 13937-1           | 25.6/23.7N     |
|                | Abrasion resistance              | ISO 12947-2 9kpa wool | >100000 cycles |





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