

## Technical Specification

# CCT | CARINTHIA COMBAT TROUSERS



Modern combat pants for use in military missions. Sophisticated fit with a wide variety of adjustment options for perfect wearing comfort with maximum freedom of movement. Adjustable waistband, knees and leg cuffs. Stretch material in crotch, seat and rear waistband. Our newly developed needled polyester fleece (NI) in the waistband reinforced with it ensures a good fit and moisture management when wearing equipment or during heavy physical exertion. Reinforced knees with external protector pockets to accommodate Carinthia (or other popular) protectors. Individual adjustment of the knee pads in height and fixation is done by integrated Velcro loops. Storage space is provided by the 4 adjustable and spacious leg pockets. In addition, 2 small lower leg pockets are available.

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# 1 Technical Requirements - Product Components

## 1.1 Main Fabric

| Parameter                             | Test method                                                | Value                                           |
|---------------------------------------|------------------------------------------------------------|-------------------------------------------------|
| Fabric Composition                    | ISO 1833                                                   | 50 % Cotton<br>49% Polyamide 6.6<br>1% Negastat |
| Color                                 |                                                            | Uni Colours or Camouflage with IRR protection   |
| Ripstop                               |                                                            |                                                 |
| Weight (g/ m <sup>2</sup> )           | ISO 3801, method 5                                         | 220g/m <sup>2</sup> ± 10%                       |
| Tensile Strength<br>Warp / Weft [N]   | EN ISO 13934-1                                             | Warp ≥ 800 N<br>Weft ≥ 700 N                    |
| Tear Strength<br>Warp / Weft [N]      | EN ISO 13937-2                                             | Warp ≥ 50 N<br>Weft ≥ 40 N                      |
| Abrasion resistance                   | EN ISO 12947-2<br>12 kPa                                   | ≥ 100.000 cycles                                |
| Pilling after 5 washes                | EN ISO 12945-2<br>After 7000 cycles + ISO 6330, 6N, F      | ≥ 4                                             |
| Spray Test                            | ISO 4920                                                   | ≥ 5                                             |
| Oil Repellency                        | ISO 14419                                                  | ≥ 5                                             |
| Dimensional stability – 3x Wash cycle | EN ISO 5077,<br>EN ISO 6330/6N, dry method<br>F (65 ± 5)°C | warp ≤ ± 3%<br>weft ≤ ± 3%                      |
| Colour fastness:                      |                                                            |                                                 |
| To light                              | EN ISO 105 – B02                                           | Colour depth dependant<br>≥ 5                   |
| To perspiration                       | EN ISO 105-E04                                             | ≥ 4                                             |
| To rubbing                            | EN ISO 105-X12                                             | Colour depth dependant<br>Dry ≥ 4<br>Wet ≥ 2-3  |
| To solvent fastness                   | EN ISO 105-C06 (60°C)                                      | ≥ 4                                             |



|                            |                |     |
|----------------------------|----------------|-----|
| To organic solvents        | EN ISO 105-X05 | ≥ 4 |
| Resistance to hydrocarbons | ISO 14419      | ≥ 4 |
| No Melt, no Drip           | ISO 15025      | yes |

## 1.2 Needle Fleece Waistband

|                             |            |                |
|-----------------------------|------------|----------------|
| Material                    |            | 100% Polyester |
| Weight (g/ m <sup>2</sup> ) | EN 29073-1 | 400 ± 10%      |
| Thickness (mm)              | EN 29073-2 | ≤ 8            |

## 1.3 Stretch Inserts

|                                     |                          |                                              |
|-------------------------------------|--------------------------|----------------------------------------------|
| Fabric Composition                  | ISO 1833                 | 40 % Cotton<br>35% Polyester<br>25% Elastane |
| Weight (g/ m <sup>2</sup> )         | ISO 3801, method 5       | 240g/m <sup>2</sup> ± 10%                    |
| Tensile Strength<br>Warp / Weft [N] | EN ISO 13934-1           | Warp ≥ 1300 N<br>Weft ≥ 500 N                |
| Tear Strength<br>Warp / Weft [N]    | EN ISO 13937-2           | Warp ≥ 40 N<br>Weft ≥ 40 N                   |
| Abrasion resistance                 | EN ISO 12947-2<br>12 kPa | ≥ 50.000 cycles                              |

#### 1.4 Reinforcement Material

| Parameter             | Test method       | Value                        |
|-----------------------|-------------------|------------------------------|
| Material              |                   | 100% Polyamide (Cordura)     |
| Weight                | EN 12127 method 5 | 180 g / m <sup>2</sup> ± 10% |
| Weave structure       |                   | Plain weave                  |
| Tensile strength warp | ISO 13934-1 2013  | ≥ 1900 N                     |
| Tensile strength weft | ISO 13934-1 2013  | ≥ 1700 N                     |
| Washing shrinkage     | ISO 6330-3A       | ≤ 3%                         |
| <b>Colourfastness</b> |                   |                              |
| To washing 60°C       | ISO 105C01        | ≥ 3-4                        |
| To water              | ISO 105E01        | ≥ 3                          |
| To rubbing dry        | ISO 105X12        | ≥ 4                          |
| To rubbing wet        | ISO 105X12        | ≥ 4                          |
| To light              | ISO 105-B02       | ≥ 5                          |

#### 1.5 Zipper

|                                             |                                                                                                        |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Type<br>(according DIN EN 16732-C)          | Synthetic zip,                                                                                         |
| Zipper Glider<br>(according DIN EN 16732-C) | and automatically locking<br>stainless steel or GD-ZnAl4Cu1<br>or GD-ZnAl4Cu1,<br>Handle shapes: short |

#### 1.6 Hook and Loop Fastener (according to DIN 3415-1)

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Material<br>(According DIN 3415-1A) | 100% Polyamide<br>flame retardant |
|-------------------------------------|-----------------------------------|

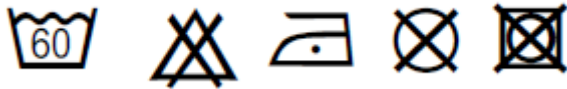
#### 1.5 Band Elastic and Non-Elastic

|          |                             |
|----------|-----------------------------|
| Material | 100% Polyester or Polyamide |
|----------|-----------------------------|

### 1.6 Knee Protectors for insertion (optional)

|                                              |                          |           |
|----------------------------------------------|--------------------------|-----------|
| Material                                     | 100% Nitril Rubber       |           |
| Hardness (Durometer)<br>SHORE 00             | ASTM D2240<br>Temp 23 °C | 73-83     |
| Density<br>g/cm <sup>3</sup>                 | ASTM D297                | 0,26-0,32 |
| Compression Deflection<br>Kg/cm <sup>2</sup> | ASTM D1056<br>Temp 23 °C | 1,6       |

### 2. CARE INSTRUCTIONS



- Use very little amount of mild detergent only
- Do not use softener
- Rinse thoroughly

### 3. OPTIONAL ADD ON ARTICLE

Protectors

