Technical Specification

CCS | CARINTHIA COMBAT SHIRT

Developed for the mission! The functional First Layer Combat Shirt is made of a high-quality material mix of NyCo. Thus, it offers a comfortable fit and a stable finish. The usual mission-relevant contact points such as elbows and shoulders have been reinforced with robust Cordura. In addition, corresponding elbow pads can be inserted.

A newly developed needled polyester fleece (Ni) has been incorporated into the collar and shoulder area to reduce pressure points and increase comfort. Practical front zipper for additional ventilation in temperature-critical situations. Quick adjustment of the arm cuff by Velcro. Features such as underarm ventilation through mesh inserts in the armpits are just as natural as Velcro patches on the upper arms. Our Combat Hood is optionally easy and quick to adapt by Velcro points on the collar.

1 Technical Requirements - Product Components

1.1 Main Fabric

Parameter	Test method	Value
Fabric Composition	ISO 1833	50 % Cotton 49% Polyamide 6.6 1% Negastat
Color		Uni Colours or Camouflage with IRR protection
Ripstop		
Weight (g/ m^2)	ISO 3801, method 5	220g/m^2 ± 10%
Tensile Strength Warp / Weft [N]	EN ISO 13934-1	Warp ≥ 800 N Weft ≥ 700 N
Tear Strength Warp / Weft [N]	EN ISO 13937-2	Warp ≥ 50 N Weft ≥ 40 N
Abrasion resistance	EN ISO 12947-2 12 kPa	≥ 100.000 cycles
Pilling after 5 washes	EN ISO 12945-2 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, EN ISO 6330/6N, dry method F (65 ± 5)°C	warp ≤ ± 3% weft ≤ ± 3%
Colour fastness:		
To light	EN ISO 105 – B02	Colour depth dependant ≥ 5
To perspiration	EN ISO 105-E04	≥ 4
To rubbing	EN ISO 105-X12	Colour depth dependant Dry ≥ 4 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 Shoulder and Neck Batting		
Material		100% Polyester
Weight (g/ m^2)	EN 29073-1	100 ± 10%
Thickness (mm)	EN 29073-2	≤ 6

1.3 Reinforcement Material		
Parameter	**Test method**	**Value**
Material		100% Polyamide (Cordura)
Weight	EN 12127 method 5	180 g / m² ± 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%
Colourfastness		
To washing 60°C To water To rubbing dry To rubbing wet To light	ISO 105C01 ISO 105E01 ISO 105X12 ISO 105X12 ISO 105-B02	≥ 4 ≥ 4 ≥ 4 ≥ 4 ≥ 5

1.4 Knitted fabric		
Material composition	ISO 1833	68% Cotton 32% Polyamide
Weight	EN 12127	180 g / m² (± 10%)
Pilling	ISO 12945-2 Load 2,4cN/cm² 2000 Rounds	≥ 4

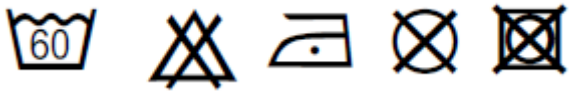
1.5 Zipper	
Type (according DIN EN 16732-C)	Synthetic zip,
Zipper Glider (according DIN EN 16732-C)	and automatically locking stainless steel or GD-ZnAl4Cu1 or GD-ZnAl4Cu1, Handle shapes: short

1.6 Hook and Loop Fastener (according to DIN 3415-1)	
Material (According DIN 3415-1A)	100% Polyamide

1.7 Bands	
Material	100% Polyester or Polyamide

1.8 Elbow Protectors for insertion (optional)		
Material	100% Nitril Rubber	
Hardness (Durometer) SHORE 00	ASTM D2240 Temp 23 °C	73-83
Density g/cm³	ASTM D297	0,26-0,32
Compression Deflection Kg/cm²	ASTM D1056 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 ARTICLES

CCH CARINTHIA COMBAT HOOD (with Velcro attachment)	Protectors