

Specifications

BRANDS OF SCANDINAVIA

SPECIFICATIONS

Brands of Scandinavia a/s specification: Tee, Sweat, Tops, Dresses, Skirts and knit for Cuffs and Hems			
Fabric	Requirements		
Fibre content ISO 1833	100% fiber content no deviation is accepted		
Deviation of fiber content	Blended fibers: tolerance $\pm 3\%$		
Mass per unit area	$\pm 5\%$ in accordance to order sheet		
Deviation of g/m2 EN 12127			
Colour fastness to washing ISO 105-C06, test no. A15: (1-5 scale, 5 best rating)	Colours in general:	Colour staining: min. 4	Colour change: min. 3-4
	Dark colours:	min. 3-4	min. 3-4
	Dark indigo colours:	min. 3	min. 3-4
	If light/dark mix in fabric/style	min. 4-5	min. 4-5
Colour fastness to perspiration (sweat) ISO 105-E04 (1-5 scale, 5 best rating)		Colour staining: min. 3-4	Colour change: min. 4
Colour fastness to water ISO105-E01 (1-5 scale, 5 best rating)		Colour staining: min. 3-4	Colour change: min. 4
Colour fastness to rubbing ISO105-X12 (1-5 scale, 5 best rating)	Light colours:	Wet Col. staining: min. 3-4	Dry Col. staining: min. 4
	Medium colours:	min. 3-4	min. 3-4
	Dark colours:	min. 3	min. 3-4
	Indigo colors:	min. 2	min. 2-3
	Fabrics with brushed surface:	min. 2-3	min. 3
Colour fastness to artificial light ISO 105-B02 (1-8 scale, 8 best rating)	Colour change: Light colours:	min. 3	
	Medium colours:	min. 3-4	
	Dark colours:	min. 4	
Functional properties / test methods	Requirements		
Bursting resistance EN/ISO 13938-2	Fabrics $\geq 125\text{g/m}^2$	min. 200 kPa	
	Fabrics $< 125\text{g/m}^2$	min. 150 kPa	
Resistance to surface fuzzing/pilling EN/ISO 12945-1 Fabrics in general: 3hr. 10.800 Revs. Soft types of fabrics containing delicate Yarns or fibers (viscose) : 2 hr. 7.200 revs Fabrics for active wear: 5hr. 18.000 Revs. (1-5 scale, 5 best rating)	Fabrics in general:	min. 3-4	
	Soft fabrics:	min. 3	
	Fabrics active wear:	min. 4	
Resistance to snagging BS 8479 (2000 revs.) (1-5 scale, 5 best rating)	Fabrics made of filaments:	min. 4	
Resistance to pile loop extraction (Terry fabrics) BS EN 15589		min. 2 N	

Brands of Scandinavia a/s specification: Tee, Sweat, Tops, Dresses, Skirts and knit for Cuffs and Hems			
Dimensional change in washing: ISO 5077 Marking and measuring: ISO 3759 Washing: ISO 6330 Fabrics in general: Procedure: 4N,F (40°C normal, ECE reference detergent, followed by tumble drying) Loose fabric: Procedure: 4G,A or C (40°C gentle, ECE reference detergent, followed by line or flat drying) Delicate styles with special yarns or effects: Procedure: 3G,A (30°C gentle, ECE reference detergent, followed by line drying)		Number of cycles: 1 x wash 5 x wash Fabrics in general: Length: max. ±5% max. ±6% Width: max. ±5% max. ±6% Loose and open fabrics: Length: max. ±7% max. ±8% Width: max. ±7% max. ±8%	
Change in appearance / test methods			
Change in appearance after wash, in accordance with the procedure for the dimensional change. Change in appearance ISO 15487 Colour change, ISO 105-A02 Cross-staining, ISO 105-A03 Change of surface, ISO 12945 Fabric smoothness, ISO 7768 Seam puckering/smoothness, ISO 7770 (1-5 scale, 5 best rating) Twist: ISO 16322-3		Change in appearance 1 x wash 5 x wash Colour change: min. 3-4 min. 3-4 Cross staining: min. 4 min. 3-4 Change of surface: min. 3-4 min. 3 Smoothness: min. 3-4 min. 3 Puckering: min. 3-4 min. 3-4 Max 4% of ½ body circumference	

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Brands of Scandinavia a/s specification: Flat knit			
Fabric		Requirements	
Fibre content ISO 1833		100% fiber content no deviation is accepted	
Deviation of fiber content		Blended fibers: tolerance $\pm 3\%$	
Mass per unit area		$\pm 5\%$ in accordance to order sheet	
Deviation of g/m ² EN 12127			
Colour properties / test methods		Requirements	
Colour fastness to washing			Colour staining: Colour change:
ISO 105-C06, test no. A1S:		Colours in general:	min. 4 min. 3-4
(1-5 scale, 5 best rating)		Dark colours:	min. 3-4 min. 3-4
		If light/dark mix in fabric/style	min. 4-5 min. 4-5
Colour fastness to perspiration (sweat)			Colour staining: Colour change:
ISO 105-E04			min. 4 min. 4
(1-5 scale, 5 best rating)			
Colour fastness to rubbing			Wet Col. staining: Dry Col. staining:
ISO105-X12		Light colours:	min. 3-4 min. 4
(1-5 scale, 5 best rating)		Medium colours:	min. 3-4 min. 3-4
		Dark colours:	min. 3 min. 3-4
Colour fastness to artificial light			Colour change:
ISO 105-B02		Light colours:	min. 3
(1-8 scale, 8 best rating)		Medium colours:	min. 3-4
		Dark colours:	min. 4
Functional properties / test methods		Requirements	
Bursting resistance		min. 200 kPa	
EN/ISO 13938-2			
Resistance to surface fuzzing/pilling		Knits in general:	min. 3-4
EN/ISO 12945-1 (3 hr. 10.800 Revs.)			
(1-5 scale, 5 best rating)			
Knit containing delicate fibres as wool or special		Knits containing special-, effect- or delicate yarns:	
blended effect yarns to be tested			min. 3
2 hr. 7.200 Revs.			
Resistance to snagging		Knits made up in filaments:	min. 4
BS 8479 (2000 revs)			
(1-5 scale, 5 best rating)			

Brands of Scandinavia a/s specification: Flat knit			
Change in appearance / test methods	Requirements		
Dimensional change in washing: ISO 5077 Marking and measuring: ISO 3759 Washing: ISO 6330 Knits in general Procedure: 4G,C (40°C gentle, ECE reference detergent, followed by flat drying) Knits in 100% cotton Procedure: 4N,F (40° normal, ECE Reference detergent, followed by tumble drying) Knits containing delicate fibres as wool Procedure: 3G,C (30°C gentle, ECE reference detergent, followed by flat drying)	Number of cycles: 1 x wash Length: max. ±4% Width: max. ±4%	5 x wash	max. ±6%
Change in appearance after wash, in accordance with the procedure for the dimensional change Change in appearance ISO 15487 Colour change, ISO 105-A02 Cross-staining, ISO 105-A03 Change of surface, ISO 12945 Fabric smoothness, ISO 7768 Seam puckering/smoothness, ISO 7770 (1-5 scale, 5 best rating) Twist: ISO 16322-3	Change in appearance Colour change: min. 3-4 Cross staining: min. 4 Change of surface: min. 4 Smoothness: min. 4 Puckering: min. 4 Max 3% of ½ body circumference	1 x wash 5 x wash min. 3-4 min. 3-4 min. 3-4 min. 3-4 min. 3-4	

SPECIFICATIONS

Brands of Scandinavia a/s specification: Shirts, Blouses, Dresses, Skirts (woven)			
Fabric		Requirements	
Fibre content ISO 1833		100% fibre content no deviation is accepted	
Deviation of fibre content		Blended fibres: tolerance $\pm 3\%$	
Mass per unit area EN 12127		$\pm 5\%$ in accordance to order sheet	
Deviation of g/m ²			
Colour properties / test methods		Requirements	
Colour fastness to washing ISO 105-C06, test no. A15: (1-5 scale, 5 best rating)			Colour staining: Colour change:
		Colours in general:	min. 4 min. 3-4
		Dark colours:	min. 3-4 min. 3-4
		Dark indigo colours:	min. 3 min. 3-4
		If light/dark mix in fabric/style	min. 4-5 min. 4-5
Colour fastness to perspiration (sweat) ISO 105-E04 (1-5 scale, 5 best rating)			Colour staining: Colour change:
		Colours in general:	min. 3-4 min. 4
Colour fastness to rubbing ISO105-X12 (1-5 scale, 5 best rating)			Wet Col. staining: Dry Col. staining:
		Light colours:	min. 3-4 min. 4
		Medium colours:	min. 3 min. 3-4
		Dark colours:	min. 2-3 min. 3-4
		Very dark Indigo colors:	min. 2 min. 3
		Fabrics with brushed surface:	min. 2-3 min. 3
Colour fastness to artificial light ISO 105-B02 (1-8 scale, 8 best rating)			Colour change:
		Light colours:	min. 3
		Medium colours:	min. 3-4
		Dark colours:	min. 4
Functional properties / test methods		Requirements	
Tear resistance EN/ISO 13937-1 (Result in Newton)		Fabrics $\leq 90\text{g/m}^2$	min. 8N
		Fabrics $> 90\text{g/m}^2$	min. 10N
		Fabrics to Skirts	min. 15N
Tensile strength EN/ISO13934-1 (Result in Newton)		Unwashed/untreated fabrics:	min. 220N
		Washed/treated fabrics:	min. 180N
		Fabrics to skirts unwashed/untreated:	min. 275N
		Fabrics to skirts washed/treated:	min. 220N
Abrasion resistance EN/ISO 12947-2 (nominal pressure of 9 kPa)		Fabrics $\leq 90\text{g/m}^2$ breakdown point 2 threads:	min. 8.000 revs
		Fabrics $> 90\text{g/m}^2$ breakdown point 2 threads:	min. 12.000 revs
EN/ISO 12947-4 (Colour change of appearance)		Skirts, breakdown point 2 threads:	min. 16.000 revs
		Change; at 8.000 revs:	min. 3

Brands of Scandinavia a/s specification: Shirts, Blouses, Dresses, Skirts (woven)			
Resistance to surface fuzzing/pilling EN/ISO 12945-2 (1-5 scale, 5 best rating)	Flat woven fabric; Fabrics with raised/brushed surface: Fabrics with heavy brushed surface: Fabrics with special yarn/weave construction:	at 2000 revs at 2000 revs at 2000 revs at 2000 revs	min. 3-4 min. 3 min. 2 min. 3
Resistance to snagging BS 8479 (2000 Revs.) (1-5 scale, 5 best rating)	Sateen fabrics or fabrics made of filaments:		
Dimensional change in washing: ISO 5077 Marking and measuring: ISO 3759 Washing: ISO 6330 Fabrics in general: Procedure: 4N,A (40°C normal, ECE reference detergent, followed by line drying) Styles with decorations, pearls/sequins: Procedure: 4G,A (40°C gentle, ECE reference detergent, followed by line drying) Delicate styles with special yarns or effects: Procedure: 3G,A (30°C gentle, ECE reference detergent, followed by line drying) Dimensional change in dry cleaning: ISO 3175-1 Marking and measuring: ISO 3759	Number of cycles: Length: Width:	1 x wash/dry clean max. ±3% max. ±3%	5 x wash/dry clean max. ±5% max. ±5%
Change in appearance / test methods	Requirements		
Change in appearance after wash, in accordance with the procedure for the dimensional change Change in appearance ISO 15487 Colour change, ISO 105-A02 Cross-staining, ISO 105-A03 Change of surface: ISO 12945 Fabric smoothness, ISO 7768 Seam puckering/smoothness, ISO 7770 (1-5 scale, 5 best rating) Twist: ISO 16322-3	Change in appearance Colour change: Cross staining: Change of surface: Smoothness: Puckering: Max 4% of ½ body circumference	1 x wash min. 4 min. 4 min. 4 min. 3 min. 3-4	5 x wash min. 3-4 min. 3-4 min. 3-4 min. 3 min. 3-4

SPECIFICATIONS

Brands of Scandinavia a/s specification: Denim Jeans, Shorts, Jackets, Skirts, Dresses			
Fabric	Requirements		
Fibre content ISO 1833	100% fibre content no deviation is accepted		
Deviation of fibre content	Blended fibres: tolerance $\pm 3\%$		
Mass per unit area EN 12127	$\pm 5\%$ in accordance to order sheet		
Deviation of g/m ²			
Colour properties / test methods	Requirements		
Colour fastness to washing ISO 105-C06, test no. A15: (1-5 scale, 5 best rating)	Colours in general: Dark colours:	Colour staining: min. 3-4 min. 3	Colour change: min. 3-4 min. 3-4
Colour fastness to perspiration (sweat) ISO 105-E04 (1-5 scale, 5 best rating)	Colours in general:	Colour staining: min. 3-4	Colour change: min. 4
Colour fastness to rubbing ISO105-X12 (1-5 scale, 5 best rating)	Light colours: Medium colours: Dark colours: Very dark Indigo:	Wet Col. staining: min. 3-4 min. 3 min. 2-3 min. 2	Dry Col. staining: min. 4 min. 3-4 min. 3 min. 3
Colour fastness to artificial light ISO 105-B02 (1-8 scale, 8 best rating)	Light colours: Medium colours: Dark colours:	Colour change: min. 3 min. 3-4 min. 4	
Functional properties / test methods	Requirements		
Tear resistance EN/ISO 13937-1 (Result in Newton)	Fabrics ≥ 10 OZ Unwashed/untreated fabrics: Washed/treated fabrics: Heaviest treated areas on finished garment:	Warp: min. 35N min. 25N min. 25N	Weft: min. 30N min. 20N min. 20N
	Fabrics < 10 OZ Unwashed/untreated fabrics: Washed/treated fabrics: Heaviest treated areas on finished garment:	Warp: min. 20N min. 16N min. 16N	Weft: min. 16N min. 12N min. 12N
Tensile strength EN/ISO13934-1 (Result in Newton)	Fabrics ≥ 10 OZ Unwashed/untreated fabrics: Washed/treated fabrics:	Warp: min. 1000N min. 800N	Weft: min. 600N min. 400N
	Fabrics < 10 OZ Unwashed/untreated fabrics: Washed/treated fabrics:	Warp: min. 800N min. 600N	Weft: min. 400N min. 300N
Abrasion resistance EN/ISO 12947-2 (nominal pressure of 9 kPa) Breakdown point 2/two threads:	Unwashed/untreated fabrics: Washed/treated fabrics:	min. 20.000 revs. min. 15.000 revs.	

Brands of Scandinavia a/s specification: Denim Jeans, Shorts, Jackets, Skirts, Dresses			
Dimensional change in washing: ISO 5077 Marking and measuring: ISO 3759 Washing: ISO 6330 Denim in general: Procedure: 4N,A (40°C normal, ECE reference detergent, followed by line drying) Styles with special effects, trim or after treatments: Procedure: 4G,A (40°C gentle, ECE reference detergent, followed by line drying)	Number of cycles: 1xwash/dry clean 5xwash/dry clean Length: max. ±3% max. ±5% Width: max. ±3% max. ±5%		
Change in appearance / test methods	Change in appearance / test methods		
Change in appearance after wash, in accordance with the procedure for the dimensional change Change in appearance ISO 15487 Colour change, ISO 105-A02 Change of surface: ISO 12945 Twist: ISO 16322-3	Change in appearance 1 x wash 5 x wash Colour change: min. 4 min. 3-4 Change of surface: min. 4 min. 3-4 Max 3% of ½ leg/body circumference		

SPECIFICATIONS

Brands of Scandinavia a/s specification: Non denim Pants, Trousers, Jackets, Skirts, Dresses			
Fabric	Requirements		
Fibre content ISO 1833	100% fibre content no deviation is accepted		
Deviation of fibre content	Blended fibres: tolerance $\pm 3\%$		
Mass per unit area EN 12127	$\pm 5\%$ in accordance to order sheet		
Deviation of g/m ²			
Colour properties / test methods	Requirements		
Colour fastness to washing ISO 105-C06, test no. A15: (1-5 scale, 5 best rating)	Colours in general:	Colour staining: min. 4	Colour change: min. 3-4
	Dark colours:	min. 3-4	min. 3-4
Colour fastness to perspiration (sweat) ISO 105-E04 (1-5 scale, 5 best rating)	Colours in general:	min. 3-4	min. 4
Colour fastness to rubbing ISO105-X12 (1-5 scale, 5 best rating)	Light colours:	min. 3-4	min. 4
	Medium colours:	min. 3-4	min. 3-4
	Dark colours:	min. 2-3	min. 3-4
	Corduroy, fabrics with pile, brushed, or over dyed, over sprayed surface:	min. 2-3	min. 3
Colour fastness to artificial light ISO 105-B02 (1-8 scale, 8 best rating)	Light colours:	min. 3	
	Medium colours:	min. 3-4	
	Dark colours:	min. 4	
Functional properties / test methods	Requirements		
Tear resistance EN/ISO 13937-1 (Result in Newton)	Fabrics $\geq 220\text{g/m}^2$	Warp:	Weft:
	Unwashed/untreated fabrics:	min. 25N	min. 20N
	Washed/treated fabrics:	min. 16N	min. 14N
	Fabrics $< 220\text{g/m}^2$	Warp:	Weft:
	Unwashed/untreated fabrics:	min. 18N	min. 14N
	Washed/treated fabrics:	min. 12N	min. 10N
Tensile strength EN/ISO13934-1 (Result in Newton)	Fabrics $\geq 220\text{g/m}^2$	Warp:	Weft:
	Unwashed/untreated fabrics:	min. 1000N	min. 500N
	Washed/treated fabrics:	min. 600N	min. 250N
	Fabrics $< 220\text{g/m}^2$	Warp:	Weft:
	Unwashed/untreated fabrics:	min. 600N	min. 400N
	Washed/treated fabrics:	min. 300N	min. 2100N

Brands of Scandinavia a/s specification: Non denim Pants, Trousers, Jackets, Skirts, Dresses			
Abrasion resistance EN/ISO 12947-2 (nominal pressure of 9 kPa) Breakdown point 2/two threads: EN/ISO 12947-4 (Change of appearance)	Unwashed/untreated fabrics: min. 20.000 revs. Washed/treated fabrics: min. 15.000 revs. Change; Corduroy/pile fabrics: Nap shall be retained after min 5.000 revs. Use only "W" back type cords unless specified otherwise		
Resistance to surface fuzzing/pilling EN/ISO 12945-2 (1-5 scale, 5 best rating)	At 2000 revs.: min. 4		
Dimensional change in washing: ISO 5077 Marking and measuring: ISO 3759 Washing: ISO 6330 Fabrics in general: Procedure: 4N,A (40°C normal, ECE reference detergent, followed by line drying) Styles with decorations, pearls/sequins: Procedure: 4G,A (40°C gentle, ECE reference detergent, followed by line drying)	Number of cycles: 1 x wash 5 x wash Length: max. ±3% max. ±5% Width: max. ±3% max. ±5%		
Change in appearance / test methods	Requirements		
Change in appearance after wash, in accordance with the procedure for the dimensional change Change in appearance ISO 15487 Colour change, ISO 105-A02 Cross-staining, ISO 105-A03 Change of surface: ISO 12945 Fabric smoothness, ISO 7768 Seam puckering/smoothness, ISO 7770 (1-5 scale, 5 best rating) Twist: ISO 16322-3	Change in appearance Colour change: min. 3-4 min. 3-4 Cross staining: min. 3-4 min. 3-4 Change of surface: min. 3-4 min. 3 Smoothness: min. 3 min. 3 Puckering: min. 3-4 min. 3 Max 3% of ½ leg circumference		

SPECIFICATIONS

Brands of Scandinavia a/s specification: Tailoring			
Fabric		Requirements	
Fibre content ISO 1833		100% fibre content no deviation is accepted	
Deviation of fibre content		Blended fibres: tolerance $\pm 3\%$	
Mass per unit area EN 12127		$\pm 5\%$ in accordance to order sheet	
Deviation of g/m ²			
Colour properties / test methods		Requirements	
Colour fastness to washing			Colour staining: Colour change:
ISO 105-C06, test no. A15:		Colours in general:	min. 4 min. 4
(1-5 scale, 5 best rating)		Dark colours:	min. 3-4 min. 3-4
		If light/dark mix in fabric/style	min. 4-5 min. 4-5
Colour fastness to rubbing			Wet Col. staining: Dry Col. staining:
ISO105-X12		Light colours:	min. 3-4 min. 4
(1-5 scale, 5 best rating)		Medium colours:	min. 3-4 min. 3-4
		Dark colours:	min. 3 min. 3-4
		Corduroy, fabrics with pile, brushed surface:	
			min. 2-3 min. 3
Colour fastness to dry cleaning		Colour change	min. 4
ISO105-D01			
(1-5 scale, 5 best rating)			
Colour fastness to artificial light			Colour change:
ISO 105-B02		Light colours:	min. 3
(1-8 scale, 8 best rating)		Medium colours:	min. 3-4
		Dark colours:	min. 4
Functional properties / test methods		Requirements	
Tear resistance			min. 15N
EN/ISO 13937-1 (Result in Newton)			
Tensile strength			min. 250N
EN/ISO13934-1 (Result in Newton)			
Abrasion resistance EN/ISO 12947-2		Breakdown point 2 threads:	min. 20.000 revs
(nominal pressure of 9 kPa)		Knit 1 tread thread:	min. 15.000 revs
EN/ISO 12947-4 (Colour change of appearance)		Change at 10.000 revs:	min. 3
		Flat woven	min. 4
		Fabric with raised surface:	min. 3-4
		Change; Corduroy/pile/velvet fabrics:	
		Nap shall be retained after min. 5.000 revs.	
		Use only "W" back type cords unless specified otherwise	

Brands of Scandinavia a/s specification: TAILORING			
Resistance to surface fuzzing/pilling EN/ISO 12945-2 (1-5 scale, 5 best rating)	Flat wovens: Fabrics with wool: Fabrics with raised surface:	At 2000 revs.: At 2000 revs.: At 2000 revs.:	min. 4 min. 3 min. 3
Resistance to surface fuzzing/pilling EN/ISO 12945-1 Fabrics in general: 5hr. 18.000revs. Delicate fabrics: 3hr. 10.800 revs. (1-5 scale, 5 best rating)	Knits: Fabrics in general: min. 3-4 Delicate fabrics:		min. 3-4 min. 3-4
Dimensional change in washing: ISO 5077 Marking and measuring: ISO 3759 Washing: ISO 6330 Fabrics in general: Procedure: 4N,A (40°C normal, ECE reference detergent, followed by line drying) Fabrics containing delicate fibres as wool Procedure: 3G,A (30°C gentle, ECE reference detergent, followed by line drying) Dimensional change in dry cleaning: ISO 3175-1 Marking and measuring: ISO 3759	Number of cycles: Length: Width:	1 x wash/dry clean max. ±3% max. ±3%	5 x wash/dry clean max. ±5% max. ±5%
Change in appearance / test methods	Requirements		
Change in appearance after wash, in accordance with the procedure for the dimensional change Change in appearance ISO 15487 Colour change, ISO 105-A02 Cross-staining, ISO 105-A03 Change of surface: ISO 12945 Fabric smoothness, ISO 7768 Seam puckering/smoothness, ISO 7770 (1-5 scale, 5 best rating) Twist: ISO 16322-3	Change in appearance Colour change: Cross staining: Change of surface: Smoothness: Puckering: Max 3% of ½ body circumference	1 x wash/dry clean min. 3-4 min. 4 min. 4 min. 3-4 min. 3-4 min. 3-4	5 x wash/dry clean min. 3-4 min. 3-4 min. 3-4 min. 3-4 min. 3-4

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Brands of Scandinavia a/s specification: Outerwear			
Fabric		Requirements	
Fibre content ISO 1833		100% fibre content no deviation is accepted	
Deviation of fibre content		Blended fibres: tolerance $\pm 3\%$	
Mass per unit area EN 12127		$\pm 5\%$ in accordance to order sheet	
Deviation of g/m ²			
Colour properties / test methods		Requirements	
Colour fastness to washing ISO 105-C06, test no. A15: (1-5 scale, 5 best rating)		Colour staining:	Colour change:
		Colours in general:	min. 3-4
		Dark colours:	min. 3
		If light/dark mix in fabric/style	min. 4-5
Colour fastness to rubbing ISO105-X12 (1-5 scale, 5 best rating)		Wet Col. staining:	Dry Col. staining:
		Light colours:	min. 3-4
		Medium colours:	min. 3-4
		Dark colours:	min. 2-3
		Fabrics with brushed surface:	min. 2-3
Colour fastness to dry cleaning ISO105-D01 (1-5 scale, 5 best rating)		Colour change:	min. 4
Colour fastness to artificial weathering ISO 105-B04 (1-8 scale, 8 best rating)		Colour change:	min. 4
Colour fastness to artificial light ISO 105-B02 (1-8 scale, 8 best rating)		Colour change:	
		Light colours:	min. 3
		Medium colours:	min. 3-4
		Dark colours:	min. 4
Functional properties / test methods		Requirements	
Tear resistance EN/ISO 13937-1 (Result in Newton)		min. 15N	
Tensile strength Woven fabrics EN/ISO13934-1 (Result in Newton)		Wovens:	
		Unwashed/untreated fabrics:	min. 300N
		Washed/treated fabrics:	min. 250N
Abrasion resistance EN/ISO 12947-2 (nominal pressure of 9 kPa) EN/ISO 12947-4 (Colour change of appearance)		Breakdown point 2 threads min. 20.000 revs.	min. 20.000 revs.
		Change at 10.000 revs.	
		Flat wovens:	min. 4
		Fabrics with raised surface:	min. 3-4
		Change; Corduroy/pile/velvet fabrics:	
		Nap shall be retained after min. 5.000 revs.	
		Use only "W" back type cords unless specified otherwise	
Resistance to surface fuzzing/pilling EN/ISO 12945-2 (1-5 scale, 5 best rating)		Flat wovens	at 2000 revs
		Fabrics with wool:	at 2000 revs
		Fabrics with raised surface:	at 2000 revs
			min. 4
			min. 3
			min. 3

Brands of Scandinavia a/s specification: Outerwear															
Resistance to snagging BS 8479 (2000 Revs.) (1-5 scale, 5 best rating)	Fabrics made of filaments:		min. 4												
Resistance to surface wetting ISO 4920 (spray test) (1-5 scale, 5 best rating)	Active wear, with or without taped seams: Before wash: min. 4-5 After 5x wash: min. 3-4 Other fabric with coatings: Before wash: min. 4 After 5x wash: min. 3-4														
Resistance to water penetration ISO 811 (water-proofness)	Active wear, with or without taped seams: <table><tr><td></td><td>Before wash:</td><td>After 5x wash:</td></tr><tr><td>Level:</td><td>≥ 8000mm</td><td>≥ 4000mm</td></tr><tr><td>Level:</td><td>≥ 5000mm</td><td>≥ 2000mm</td></tr><tr><td>Level:</td><td>≥ 3000mm</td><td>≥ 1500mm</td></tr></table>				Before wash:	After 5x wash:	Level:	≥ 8000mm	≥ 4000mm	Level:	≥ 5000mm	≥ 2000mm	Level:	≥ 3000mm	≥ 1500mm
	Before wash:	After 5x wash:													
Level:	≥ 8000mm	≥ 4000mm													
Level:	≥ 5000mm	≥ 2000mm													
Level:	≥ 3000mm	≥ 1500mm													
Water vapour permeability ISO 15496 (breath ability)	Active wear: Level: 5.000 mgr/m2/24 hr Level: 3.000 mgr/m2/24 hr Level: 1.000 mgr/m2/24 hr														
Resistance to air penetration ISO 9237 (wind-proofness)	Active wear and other fabrics for wind proof styles: max. 20mm/s														
Down-proofness EN 12132-1	Fabrics used for down jackets:		max. 10 downs/feathers												
Fiber-proofness EN 15586:2008	Fabrics used for fiber padded/stuffed jackets:														
Dimensional change in washing: ISO 5077 Marking and measuring: ISO 3759 Washing: ISO 6330 General styles, and styles with coatings or membrane: Procedure: 4G,A (40°C gentle, ECE reference detergent, followed by line drying) Styles with padding: Procedure: 4G,F (40°C gentle, ECE reference detergent, followed by tumble drying) Styles containing delicate fibres as wool Procedure: 3G,A (30°C gentle, ECE reference detergent, followed by line drying) Dimensional change in dry cleaning: ISO 3175-1 Marking and measuring: ISO 3759	Number of cycles: Length: Width:	1 x wash/dry clean max. ±3% max. ±3%	5 x wash/dry clean max. ±5% max. ±5%												

SPECIFICATIONS

Brands of Scandinavia a/s specification: Outerwear			
Change in appearance / test methods	Requirements		
Change in appearance after wash, in accordance with the procedure for the dimensional change			
Change in appearance ISO 15487	Change in appearance	1 x wash/dry clean	5 x wash/dry clean
Colour change, ISO 105-A02	Colour change:	min. 3-4	min. 3-4
Cross-staining, ISO 105-A03	Cross staining:	min. 4	min. 3-4
Change of surface: ISO 12945	Change of surface:	min. 4	min. 3-4
Fabric smoothness, ISO 7768	Smoothness:	min. 3-4	min. 3-4
Seam puckering/smoothness, ISO 7770	Puckering:	min. 3-4	min. 3-4
(1-5 scale, 5 best rating)			
Twist: ISO 16322-3	Max 3% of ½ body circumference		

Brands of Scandinavia a/s specification: Lining			
Fabric		Requirements	
Fibre content ISO 1833		100% fibre content no deviation is accepted	
Deviation of fibre content		Blended fibres: tolerance $\pm 3\%$	
Mass per unit area EN 12127		$\pm 5\%$ in accordance to order sheet	
Deviation of g/m ²			
Colour properties / test methods		Requirements	
Colour fastness to washing			Colour staining: Colour change:
ISO 105-C06, test no. A15:		Colours in general:	min. 4 min. 4
(1-5 scale, 5 best rating)		Dark colours:	min. 3-4 min. 3-4
		If light/dark mix in fabric/style	min. 4-5 min. 4-5
Colour fastness to perspiration (sweat)			Colour staining: Colour change:
ISO 105-E04			min. 4 min. 4
(1-5 scale, 5 best rating)			
Colour fastness to rubbing			Wet Col. staining: Dry Col. staining:
ISO105-X12		Light colours:	min. 3-4 min. 4
(1-5 scale, 5 best rating)		Medium colours:	min. 3-4 min. 3-4
		Dark colours:	min. 3 min. 3-4
Colour fastness to dry cleaning		Colour change:	min. 4
ISO105-D01			
(1-5 scale, 5 best rating)			
Functional properties / test methods		Requirements	
Tear resistance (wovens)		Unwashed/untreated fabrics:	min. 12N
EN/ISO 13937-1 (Result in Newton)		Washed/treated fabrics:	min. 10N
Tensile strength (wovens)			min. 220N
EN/ISO13934-1 (Result in Newton)			
Bursting resistance (Raschel/mesh/knits)			min. 200kPa
EN/ISO 13938-2			
Abrasion resistance		Breakdown point	
(nominal pressure of 9 kPa)		Woven 2 threads:	min. 10.000 revs
EN/ISO 12947-4 (Colour change of appearance)		Rachel/mesh/knit 1 thread:	min. 8.000 revs
Resistance to surface fuzzing/pilling		Flat wovens at 2000 revs	min. 3-4
EN/ISO 12945-2		Woven fabrics with raised surface: at 2000 revs	min. 3
(1-5 scale, 5 best rating)			
Resistance to surface fuzzing/pilling		Rachel/mesh/knits:	min. 3-4
EN/ISO 12945-1 (3 hr. 10.800 Revs.)		Knits with raised/brushed surface:	min. 3
(1-5 scale, 5 best rating)			
Resistance to snagging		Fabrics made of filaments:	min. 4
BS 8479 (2000 Revs.)			
(1-5 scale, 5 best rating)			
Down profness EN 12132-1		Fabrics used for down jackets:	max 10 downs/feathers

SPECIFICATIONS

Brands of Scandinavia a/s specification: Lining			
Dimensional change in washing: ISO 5077 Marking and measuring: ISO 3759 Washing: ISO 6330 Fabrics in general: Procedure: 4N,A (40°C normal, ECE reference detergent, followed by tumble drying) Fabrics containing delicate fibres as wool Procedure: 3G,A (30°C gentle, ECE reference detergent, followed by line drying) Dimensional change in dry cleaning: ISO 3175-1 Marking and measuring: ISO 3759	Number of cycles:	1 x wash/dry clean	5 x wash/dry clean
	Length:	max. ±2%	max. ±3%
	Width:	max. ±2%	max. ±3%
Change in appearance / test methods	Requirements		
Change in appearance after wash, in accordance with the procedure for the dimensional change			
Change in appearance ISO 15487	Change in appearance	1 x wash/dry clean	5 x wash/dry clean
Colour change, ISO 105-A02	Colour change:	min. 3-4	min. 3-4
Cross-staining, ISO 105-A03	Cross staining:	min. 4	min. 3-4
Change of surface: ISO 12945	Change of surface:	min. 4	min. 3-4
Fabric smoothness, ISO 7768	Smoothness:	min. 3-4	min. 3-4
Seam puckering/smoothness, ISO 7770	Puckering:	min. 3-4	min. 3-4
(1-5 scale, 5 best rating)			
Twist: ISO 16322-3	Max 3% of ½ body circumference		

Brands of Scandinavia a/s specification: Leather, Suede			
Leather / Suede	Requirements		
Determination of thickness ISO 2598 (Measured in mm)			
Colour properties / test methods	Requirements		
Colour fastness to machine washing ISO 15702 (1-5 scale, 5 best rating)	Colour staining: min. 3-4	Colour change: min. 3-4	Change in the finish: min. 3-4
Colour fastness to water ISO 11642 (1-5 scale, 5 best rating)	Colour staining: min. 4	Colour change: min. 4	
Colour fastness to rubbing ISO 11640 (1-5 scale, 5 best rating) Leather: Dry rubbing 50 cycles Wet rubbing 20 cycles Suede: Dry rubbing 20 cycles Wet rubbing 10 cycles	Leather Suede	Wet Col. staining: min. 3-4 Wet Col. staining: min. 3-4	Dry Col. staining: min. 4 Dry Col. staining: min. 4
Colour fastness of small samples to solvents ISO 11643 (1-5 scale, 5 best rating)			Colour change: min. 3-4
Colour fastness to water spotting ISO 15700 (1-5 scale, 5 best rating)			Colour change: min. 3-4
Colour fastness to artificial light ISO 105-B02 (1-8 scale, 8 best rating)	Colour change: Light colours: Medium colours: Dark colours:		min. 3 min. 3-4 min. 4
Functional properties/ test methods	Requirements		
Tear resistance ISO 3377 (Result in Newton)	Leather Suede	min. 25N min. 15N	
Tensile strength ISO 3376 (Result in Newton)	Leather Suede	min. 12N/mm2 min. 12N/mm2	
Flexing resistance ISO 5402	Leather Suede	min. 40.000 flx. min. 20.000 flx.	
Adhesion of finish (Leather) ISO 11644	Leather	Dry: min. 2.5N/10mm	Wet: min. 1.5N/10mm

SPECIFICATIONS

Brands of Scandinavia a/s specification: Leather, Suede		
Dimensional change in washing: ISO 5077 Marking and measuring: ISO 3759 Washing: ISO 6330 Procedure: 3G,A (30°C gentle ECE reference detergent, followed by line drying) Dimensional change in dry cleaning: ISO 3175-1 Marking and measuring: ISO 3759	Number of cycles: 1 x wash/dry clean Length: max. $\pm 1/2\%$ Width: max. $\pm 1/2\%$	
Change in appearance / test methods	Requirements	
Change in appearance after wash/dry clean, in accordance with the procedure for the dimensional change Change in appearance ISO 15487 Colour change, ISO 105-A02 Change of surface: ISO 12945	Change in appearance 1 x wash/dry clean Colour change: min. 4 Change of surface: min. 4 All individual part in the garment must be of the same colour shade and blotches must not occur	

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