

MATERIAL GUIDE

Outdoor and workwear fabric reference for brand teams, designers and sourcing partners.

112 reference constructions

8 fabric families

For development, not a final TDS

GOODUS

Technical outerwear

Workwear / private label

From brief to fabric shortlist.

Use the guide to align protection, hand feel, weight and compliance before sampling. Every range is a development reference; confirm final performance with the nominated supplier, approved sample and lab test.

01 DEFINE THE JOB

Rain, wind, abrasion, warmth, visibility or a combination?
Start with the risk and the customer.

02 SET THE HAND FEEL

Choose light and crisp, structured and durable, soft and warm, or stretch and quiet.

03 MATCH THE BUILD

Compare denier, weave, GSM, membrane or coating, DWR and stretch as one system.

04 VERIFY THE CLAIM

Request TDS, composition, tolerances, test method, certification scope and wash performance.

GOODUS DEVELOPMENT NOTE

DWR improves surface wetting resistance; it does not make a fabric waterproof. Waterproofing, MVTR and final garment construction must be evaluated together.

Eight families. One working language.

The master spec groups 112 constructions by the way the fabric behaves in a garment. Use this map to choose a starting family, then move to the detailed tables.

BASE WOVENS 16 constructions	Reliable plain and Oxford constructions from ultralight lining to heavy-duty reinforcement.
TASLAN 12 constructions	Textured, durable surfaces with optional stretch, coatings, C0 DWR, FR and antistatic routes.
HARDSHELL 14 constructions	2L, 2.5L and 3L membrane systems tuned for rain, breathability, packability and protection.
WORKWEAR 12 constructions	Durable polyester, T/C, stretch, FR and antistatic constructions for daily industrial use.
RIPSTOP 16 constructions	Tear-resistant grids for shells, hiking systems, tactical layers and active workwear.
SOFTSHELL 14 constructions	Stretch comfort plus membrane protection and fleece-backed warmth for outdoor and work programs.
FLEECE 12 constructions	Brushed, anti-pill, sherpa and grid constructions that build warmth without unnecessary bulk.
HI-VIS / REFLECTIVE 16 constructions	Fluorescent shells, softshells, hardshells, FR options and reflective tape systems.

Quick read

Low GSM = lighter / higher GSM = more body and warmth. Higher denier generally supports durability, but construction and finish still decide performance.

BASE WOVENS

Reliable plain and Oxford constructions from ultralight lining to heavy-duty reinforcement.

FABRIC	MATERIAL / DENIER	CONSTRUCTION	GSM / WIDTH	WP / MVTR	USE / NOTE
01 75D Polyester Taffeta	100% PES 75D	Plain/Taffeta	50-90 150-160 cm	WP 0-3,000 MVTR 3,000-8,000	Windbreakers, light linings
02 75D Nylon Taffeta	100% Nylon 6/6 75D	Plain/Taffeta	45-80 145-155 cm	WP 0-5,000 MVTR 5,000-15,000	Ultralight outdoor
03 100D Polyester Taffeta	100% PES 100D	Plain/Taffeta	65-110 150-160 cm	WP 0-5,000 MVTR 5,000-12,000	Light shells
04 100D Nylon Taffeta	100% Nylon 100D	Plain/Taffeta	60-105 145-155 cm	WP 0-5,000 MVTR 5,000-15,000	Light shells
05 150D Polyester Plain	100% PES 150D	Plain	90-140 150-165 cm	WP 0-5,000 MVTR 3,000-12,000	Outdoor/work jackets
06 150D Nylon Plain	100% Nylon 150D	Plain	85-140 145-160 cm	WP 0-5,000 MVTR 5,000-15,000	Outdoor shells
07 150D Polyester Oxford	100% PES 150D	Oxford	130-180 150-165 cm	WP 5,000-10,000 MVTR 3,000-10,000	PPE shells; one real 150D Oxford example is 150 gsm, >5,000 mm, >3,000 MVTR
08 210D Nylon Oxford	100% Nylon 210D	Oxford	140-220 150-165 cm	WP 5,000-15,000 MVTR 3,000-15,000	Outdoor/workwear
09 210D Polyester Oxford	100% PES 210D	Oxford	140-220 150-165 cm	WP 5,000-15,000 MVTR 3,000-15,000	Workwear shells
10 300D Polyester Oxford	100% PES 300D	Oxford	160-240 150-165 cm	WP 3,000-15,000 MVTR 3,000-15,000	Core Hi-Vis/workwear shell

BASE WOVENS / continued

Reliable plain and Oxford constructions from ultralight lining to heavy-duty reinforcement.

FABRIC	MATERIAL / DENIER	CONSTRUCTION	GSM / WIDTH	WP / MVTR	USE / NOTE
11 300D Polyester Twill	100% PES 300D	Twill	180-260 150-165 cm	WP 0-10,000 MVTR 3,000-12,000	Work jackets/pants
12 500D Nylon Oxford	100% Nylon 6/6 500D	Oxford	220-350 150-165 cm	WP 5,000-20,000 MVTR 3,000-15,000	Reinforcement/heavy workwear
13 500D Polyester Oxford	100% PES 500D	Oxford	230-350 150-165 cm	WP 5,000-15,000 MVTR 3,000-12,000	Heavy workwear
14 600D Polyester Oxford	100% PES 600D	Oxford	250-380 150-165 cm	WP 5,000-15,000 MVTR 3,000-10,000	Heavy-duty workwear
15 900D Polyester Oxford	100% PES 900D	Oxford	300-450 150-165 cm	WP 5,000-15,000 MVTR 2,000-10,000	Equipment/reinforcement
16 900D Nylon Oxford	100% Nylon 900D	Oxford	280-430 150-165 cm	WP 5,000-20,000 MVTR 3,000-15,000	Heavy tactical/outdoor equipment

RIPSTOP

Tear-resistant grids for shells, hiking systems, tactical layers and active workwear.

FABRIC	MATERIAL / DENIER	CONSTRUCTION	GSM / WIDTH	WP / MVTR	USE / NOTE
01 20D Nylon Ripstop	100% Nylon 20D	Ripstop	20-40 140-155 cm	WP 0-5,000 MVTR 5,000-20,000	Ultralight shells
02 30D Nylon Ripstop	100% Nylon 30D	Ripstop	25-50 140-155 cm	WP 0-10,000 MVTR 5,000-20,000	Ultralight outdoor
03 40D Nylon Ripstop	100% Nylon 40D	Ripstop	35-60 140-155 cm	WP 0-10,000 MVTR 5,000-20,000	Shells/down jackets
04 40D Polyester Ripstop	100% PES 40D	Ripstop	35-65 145-160 cm	WP 0-10,000 MVTR 3,000-15,000	Light shells
05 75D Nylon Ripstop	100% Nylon 75D	Ripstop	55-100 145-160 cm	WP 3,000-10,000 MVTR 5,000-20,000	Hiking/rain shells
06 75D Polyester Ripstop	100% PES 75D	Ripstop	55-105 145-160 cm	WP 3,000-10,000 MVTR 3,000-15,000	Outdoor/workwear
07 100D Nylon Ripstop	100% Nylon 100D	Ripstop	70-120 145-160 cm	WP 5,000-15,000 MVTR 5,000-20,000	Durable shells
08 100D Polyester Ripstop	100% PES 100D	Ripstop	70-120 145-160 cm	WP 5,000-15,000 MVTR 5,000-15,000	Outdoor/Hi-Vis
09 150D Nylon Ripstop	100% Nylon 150D	Ripstop	100-170 145-160 cm	WP 5,000-15,000 MVTR 5,000-15,000	Outdoor/workwear
10 150D Polyester Ripstop	100% PES 150D	Ripstop	100-170 145-165 cm	WP 5,000-15,000 MVTR 3,000-15,000	Workwear/Hi-Vis

RIPSTOP / continued

Tear-resistant grids for shells, hiking systems, tactical layers and active workwear.

FABRIC	MATERIAL / DENIER	CONSTRUCTION	GSM / WIDTH	WP / MVTR	USE / NOTE
11 210D Nylon Ripstop	100% Nylon 210D	Ripstop	140-220 145-165 cm	WP 5,000-20,000 MVTR 5,000-15,000	Heavy outdoor
12 210D Polyester Ripstop	100% PES 210D	Ripstop	140-220 145-165 cm	WP 5,000-15,000 MVTR 3,000-15,000	Workwear
13 300D Polyester Ripstop	100% PES 300D	Ripstop Oxford	160-250 150-165 cm	WP 5,000-15,000 MVTR 5,000-15,000	Hi-Vis/workwear
14 300D Nylon Ripstop	100% Nylon 300D	Ripstop	170-260 150-165 cm	WP 5,000-20,000 MVTR 5,000-20,000	Outdoor/tactical
15 T/C Ripstop	65/35 PES/Cotton 20s-30s	Ripstop	180-280 145-160 cm	WP 0-3,000 MVTR N/A	Workwear
16 Stretch Ripstop	PES/Nylon + 3-15% EA 75-300D	Ripstop + stretch	120-260 145-160 cm	WP 3,000-10,000 MVTR 3,000-15,000	Active workwear

TASLAN

Textured, durable surfaces with optional stretch, coatings, C0 DWR, FR and antistatic routes.

FABRIC	MATERIAL / DENIER	CONSTRUCTION	GSM / WIDTH	WP / MVTR	USE / NOTE
01 Nylon Taslan 70D	100% Nylon 70D	Taslan/Plain	80-140 145-160 cm	WP 3,000-10,000 MVTR 5,000-15,000	Outdoor jackets
02 Nylon Taslan 100D	100% Nylon 100D	Taslan	100-170 145-160 cm	WP 5,000-15,000 MVTR 5,000-15,000	Outdoor shells
03 Nylon Taslan 150D	100% Nylon 150D	Taslan	120-190 145-160 cm	WP 5,000-15,000 MVTR 5,000-15,000	Ski/outdoor
04 Polyester Taslan 75D	100% PES 75D	Taslan	90-150 150-165 cm	WP 3,000-10,000 MVTR 3,000-12,000	Budget outdoor
05 Polyester Taslan 100D	100% PES 100D	Taslan	100-180 150-165 cm	WP 3,000-15,000 MVTR 3,000-15,000	Outdoor/workwear
06 Polyester Taslan 150D	100% PES 150D	Taslan	120-220 150-165 cm	WP 5,000-15,000 MVTR 3,000-15,000	Outdoor/workwear
07 Stretch Nylon Taslan	Nylon + 5-15% EA 70-150D	Stretch Taslan	130-220 145-160 cm	WP 3,000-15,000 MVTR 5,000-15,000	Hiking pants/jackets
08 Stretch Polyester Taslan	PES + 5-15% EA 75-150D	Stretch Taslan	130-220 150-165 cm	WP 3,000-15,000 MVTR 3,000-15,000	Work/outdoor
09 Waterproof Nylon Taslan	Nylon 70-150D	Taslan + PU/TPU	120-220 145-160 cm	WP 5,000-20,000 MVTR 5,000-15,000	Rain/outdoor
10 Waterproof PES Taslan	PES 75-150D	Taslan + PU/TPU	120-220 150-165 cm	WP 5,000-15,000 MVTR 3,000-15,000	Workwear/outdoor

TASLAN / continued

Textured, durable surfaces with optional stretch, coatings, C0 DWR, FR and antistatic routes.

FABRIC	MATERIAL / DENIER	CONSTRUCTION	GSM / WIDTH	WP / MVTR	USE / NOTE
11 C0 DWR Taslan	PES/Nylon 75-150D	Taslan + C0 DWR	90-180 145-165 cm	WP N/A-3,000 MVTR N/A-10,000	PFAS-conscious outdoor
12 Taslan FR/Antistatic	PES/FR blend + conductive 75-300D	Taslan coated	140-260 145-165 cm	WP 3,000-10,000 MVTR 3,000-12,000	Protective workwear

SOFTSHELL

Stretch comfort plus membrane protection and fleece-backed warmth for outdoor and work programs.

FABRIC	MATERIAL / DENIER	CONSTRUCTION	GSM / WIDTH	WP / MVTR	USE / NOTE
01 2L Softshell Fleece	PES/EA + fleece 75-150D	2L knit + fleece	220-330 150-160 cm	WP 2,000-8,000 MVTR 3,000-10,000	General outdoor
02 2L Softshell Woven	PES/EA 75-150D	2L woven + fleece	230-350 150-160 cm	WP 3,000-10,000 MVTR 3,000-12,000	Work/outdoor
03 3L Softshell 250G	PES knit + TPU + fleece 30-150D	3L laminated	240-270 150-155 cm	WP 8,000-10,000 MVTR 5,000-10,000	Outdoor/workwear
04 3L Softshell 300G	PES/EA + membrane + fleece 75-150D	3L	280-320 150-160 cm	WP 10,000-15,000 MVTR 5,000-15,000	Winter outdoor
05 3L Softshell 350G	PES/EA + membrane + fleece 75-150D	3L	320-370 150-160 cm	WP 10,000-15,000 MVTR 5,000-15,000	Cold-weather workwear
06 4-way Stretch Softshell	PES/EA 75-150D	Stretch woven + membrane	220-330 150-160 cm	WP 5,000-15,000 MVTR 5,000-15,000	Active outdoor
07 2-way Stretch Softshell	PES/EA 75-150D	Stretch woven + membrane	220-330 150-160 cm	WP 5,000-15,000 MVTR 5,000-15,000	Workwear
08 Fleece-back Softshell	PES/EA + fleece 75-150D	Woven + membrane + fleece	250-350 150-160 cm	WP 5,000-15,000 MVTR 5,000-15,000	Winter jacket
09 Grid-fleece Softshell	PES/EA + grid fleece 75-150D	3L + grid backer	230-320 150-160 cm	WP 5,000-15,000 MVTR 5,000-20,000	High-output outdoor
10 Microfleece Softshell	PES/EA + microfleece 75-150D	3L + microfleece	230-320 150-160 cm	WP 5,000-15,000 MVTR 5,000-15,000	Light winter

SOFTSHELL / continued

Stretch comfort plus membrane protection and fleece-backed warmth for outdoor and work programs.

FABRIC	MATERIAL / DENIER	CONSTRUCTION	GSM / WIDTH	WP / MVTR	USE / NOTE
11 Hi-Vis Softshell	Fluorescent PES/EA + membrane + fleece 75-150D	3L	250-350 150-160 cm	WP 5,000-15,000 MVTR 5,000-15,000	Hi-Vis workwear
12 FR Softshell	FR PES/Modacrylic/Aramid blend 75-300D	2L/3L	250-400 150-160 cm	WP 3,000-15,000 MVTR 3,000-15,000	Protective workwear
13 Stretch Fleece-back Workwear	PES/TC + EA 150-300D	Woven + fleece	220-320 150-165 cm	WP 3,000-10,000 MVTR 3,000-10,000	Industrial jackets
14 Recycled Softshell	rPET/EA + TPU + fleece 75-150D	3L	240-350 150-160 cm	WP 5,000-15,000 MVTR 5,000-15,000	Sustainable outdoor

HARDSHELL

2L, 2.5L and 3L membrane systems tuned for rain, breathability, packability and protection.

FABRIC	MATERIAL / DENIER	CONSTRUCTION	GSM / WIDTH	WP / MVTR	USE / NOTE
01 2L PU Hardshell 75D	PES + PU 75D	2L membrane/lining	90-150 145-160 cm	WP 5,000-10,000 MVTR 3,000-10,000	Rain shell
02 2L PU Hardshell 150D	PES + PU 150D	2L	130-190 150-165 cm	WP 5,000-15,000 MVTR 3,000-15,000	Work/rain shell
03 2L TPU Hardshell 150D	PES + TPU 150D	2L	130-200 150-165 cm	WP 10,000-20,000 MVTR 5,000-15,000	Premium shell
04 2L PTFE Hardshell	PES/Nylon + PTFE 30-150D	2L	100-180 145-160 cm	WP 20,000-30,000+ MVTR 15,000-30,000+	High-performance outdoor
05 2.5L PU Hardshell	PES/Nylon + PU 20-100D	2.5L printed backer	70-140 145-160 cm	WP 10,000-20,000 MVTR 10,000-20,000	Packable rain shell
06 2.5L TPU Hardshell	PES/Nylon + TPU 20-100D	2.5L	70-150 145-160 cm	WP 15,000-30,000 MVTR 10,000-20,000	Light premium shell
07 2.5L PTFE Hardshell	PES/Nylon + PTFE 20-70D	2.5L	60-130 145-160 cm	WP 20,000-30,000+ MVTR 20,000-30,000+	Ultralight shell
08 3L PU Hardshell	PES/Nylon + PU 30-150D	3L	120-230 145-160 cm	WP 10,000-20,000 MVTR 10,000-20,000	Outdoor/work
09 3L TPU Hardshell	PES/Nylon + TPU 30-300D	3L	130-260 145-165 cm	WP 15,000-30,000 MVTR 10,000-25,000	Premium outdoor
10 3L PTFE Hardshell	PES/Nylon + PTFE 20-150D	3L	120-240 145-160 cm	WP 20,000-40,000+ MVTR 20,000-40,000+	Extreme outdoor

HARDSHELL / continued

2L, 2.5L and 3L membrane systems tuned for rain, breathability, packability and protection.

FABRIC	MATERIAL / DENIER	CONSTRUCTION	GSM / WIDTH	WP / MVTR	USE / NOTE
11 3L 300D Oxford TPU	PES + TPU + tricot 300D	3L Oxford	200-300 150-165 cm	WP 10,000-20,000 MVTR 5,000-15,000	Heavy rain/workwear
12 Hardshell Stretch	PES/Nylon + EA + membrane 30-150D	2.5L/3L	120-250 145-160 cm	WP 10,000-20,000 MVTR 10,000-25,000	Active outdoor
13 Hi-Vis Hardshell	Fluorescent PES + PU/TPU 75-300D	2L/3L	140-280 150-165 cm	WP 10,000-20,000 MVTR 5,000-15,000	Rain workwear
14 FR Hardshell	FR PES/aramid + membrane 75-300D	2L/3L	160-320 150-165 cm	WP 10,000-20,000 MVTR 5,000-15,000	Protective rainwear

FLEECE

Brushed, anti-pill, sherpa and grid constructions that build warmth without unnecessary bulk.

FABRIC	MATERIAL / DENIER	CONSTRUCTION	GSM / WIDTH	WP / MVTR	USE / NOTE
01 Microfleece 100G	100% PES ~75D microfilament	Circular knit + brushed	90-120 150-180 cm	WP No MVTR N/A	Thin midlayer
02 Microfleece 150G	100% PES ~75-150D	Brushed knit	130-170 150-180 cm	WP No MVTR N/A	Light midlayer
03 Microfleece 200G	100% PES 75-150D	Brushed knit	180-210 150-180 cm	WP No MVTR N/A	Midlayer
04 Polar Fleece 180G	100% PES 100-300D	Double brushed	170-195 150-190 cm	WP No MVTR N/A	General fleece
05 Polar Fleece 220G	100% PES 100-300D	Double brushed	210-235 150-190 cm	WP No MVTR N/A	Outdoor/workwear
06 Polar Fleece 260G	100% PES 100-300D	Double brushed	250-275 150-190 cm	WP No MVTR N/A	Warm midlayer
07 Polar Fleece 300G	100% PES 100-300D	Double brushed	285-315 150-190 cm	WP No MVTR N/A	Winter workwear
08 Anti-pill Fleece 200G	100% PES 100-300D	Anti-pill brushed	190-215 150-190 cm	WP No MVTR N/A	Uniforms
09 Anti-pill Fleece 300G	100% PES 100-300D	Anti-pill double brushed	285-315 150-190 cm	WP No MVTR N/A	Winter workwear
10 Sherpa Fleece 300G	100% PES 100-300D	High-loft sherpa	285-330 150-190 cm	WP No MVTR N/A	Warm lining

FLEECE / continued

Brushed, anti-pill, sherpa and grid constructions that build warmth without unnecessary bulk.

FABRIC	MATERIAL / DENIER	CONSTRUCTION	GSM / WIDTH	WP / MVTR	USE / NOTE
11 Grid Fleece 180G	100% PES 75-150D	Grid knit + brushed	165-195 150-190 cm	WP No MVTR N/A	Active midlayer
12 High-loft Fleece 350G	100% PES 150-300D	High-loft double brushed	330-380 150-190 cm	WP No MVTR N/A	Cold-weather insulation

WORKWEAR

Durable polyester, T/C, stretch, FR and antistatic constructions for daily industrial use.

FABRIC	MATERIAL / DENIER	CONSTRUCTION	GSM / WIDTH	WP / MVTR	USE / NOTE
01 150D Workwear PES	100% PES 150D	Plain/Oxford	100-160 150-165 cm	WP 3,000-10,000 MVTR 3,000-10,000	Light work jacket
02 300D Oxford Workwear	100% PES 300D	Oxford	160-240 150-165 cm	WP 5,000-15,000 MVTR 3,000-15,000	Work jacket
03 300D Ripstop Workwear	100% PES 300D	Ripstop Oxford	170-250 150-165 cm	WP 5,000-15,000 MVTR 5,000-15,000	Durable workwear
04 500D Heavy Workwear	PES/Nylon 500D	Oxford	230-350 150-165 cm	WP 5,000-15,000 MVTR 3,000-12,000	Heavy workwear
05 Stretch Workwear PES/EA	PES + 3-15% EA 150-300D	Stretch twill	180-280 150-165 cm	WP 0-5,000 MVTR N/A	Active work
06 T/C 65/35 Plain	65/35 PES/Cotton 20s-45s	Plain	150-220 145-160 cm	WP 0-3,000 MVTR N/A	Uniforms
07 T/C 65/35 Twill	65/35 PES/Cotton 20s-40s	Twill	180-280 145-160 cm	WP 0-3,000 MVTR N/A	Workwear
08 T/C 65/35 Ripstop	65/35 PES/Cotton 20s-30s	Ripstop	180-280 145-160 cm	WP 0-3,000 MVTR N/A	Industrial
09 CVC Workwear	60/40-50/50 Cotton/PES 20s-40s	Twill/Plain	160-260 145-160 cm	WP 0-3,000 MVTR N/A	Comfort workwear
10 FR Cotton	FR treated cotton 16s-40s	Twill/Canvas	180-320 145-160 cm	WP 0-3,000 MVTR N/A	FR workwear

WORKWEAR / continued

Durable polyester, T/C, stretch, FR and antistatic constructions for daily industrial use.

FABRIC	MATERIAL / DENIER	CONSTRUCTION	GSM / WIDTH	WP / MVTR	USE / NOTE
11 FR Modacrylic Blend	Modacrylic/PES/aramid 20s-40s	Twill/Plain	180-300 145-160 cm	WP 0-5,000 MVTR N/A	FR workwear
12 Antistatic Workwear	PES + conductive fiber 75-300D	Plain/Twill/Ripstop	120-260 145-165 cm	WP 0-5,000 MVTR N/A	ESD/industrial

HI-VIS / REFLECTIVE

Fluorescent shells, softshells, hardshells, FR options and reflective tape systems.

FABRIC	MATERIAL / DENIER	CONSTRUCTION	GSM / WIDTH	WP / MVTR	USE / NOTE
01 Hi-Vis PES 120G	100% fluorescent PES 75-100D	Plain	110-135 150-165 cm	WP 0-3,000 MVTR N/A	Summer vest
02 Hi-Vis PES 150G	100% fluorescent PES 100-150D	Plain	140-165 150-165 cm	WP 0-5,000 MVTR N/A	Vest/shirt
03 Hi-Vis PES 180G	100% fluorescent PES 150D	Plain/Taffeta	170-195 150-165 cm	WP 0-5,000 MVTR N/A	Light jacket
04 Hi-Vis 150D Oxford	Fluorescent PES 150D	Oxford	130-180 150-165 cm	WP 5,000-10,000 MVTR 3,000-10,000	Rain/work jacket
05 Hi-Vis 300D Oxford	Fluorescent PES 300D	Oxford	170-240 150-165 cm	WP 5,000-15,000 MVTR 3,000-15,000	Core Hi-Vis shell
06 Hi-Vis 300D Ripstop	Fluorescent PES 300D	Ripstop Oxford	180-250 150-165 cm	WP 5,000-15,000 MVTR 5,000-15,000	Durable rainwear
07 Hi-Vis 500D Oxford	Fluorescent PES 500D	Oxford	230-350 150-165 cm	WP 5,000-15,000 MVTR 3,000-12,000	Heavy-duty
08 Hi-Vis Softshell 250G	Fluorescent PES/EA + membrane 75-150D	3L softshell	240-270 150-160 cm	WP 5,000-10,000 MVTR 5,000-10,000	Light winter
09 Hi-Vis Softshell 300G	Fluorescent PES/EA + membrane + fleece 75-150D	3L	280-320 150-160 cm	WP 10,000-15,000 MVTR 5,000-15,000	Winter workwear
10 Hi-Vis Softshell 350G	Fluorescent PES/EA + membrane + fleece 75-150D	3L	320-370 150-160 cm	WP 10,000-15,000 MVTR 5,000-15,000	Cold-weather

HI-VIS / REFLECTIVE / continued

Fluorescent shells, softshells, hardshells, FR options and reflective tape systems.

FABRIC	MATERIAL / DENIER	CONSTRUCTION	GSM / WIDTH	WP / MVTR	USE / NOTE
11 Hi-Vis Hardshell 2L	Fluorescent PES + PU 75-150D	2L	130-200 150-165 cm	WP 10,000-20,000 MVTR 5,000-15,000	Rain jacket
12 Hi-Vis Hardshell 3L	Fluorescent PES + TPU 75-300D	3L	160-280 150-165 cm	WP 10,000-20,000 MVTR 5,000-20,000	Premium rainwear
13 Retroreflective Tape 50mm	PES carrier + glass bead/prismatic -	Reflective tape	100-300 g/m2 50 mm cm	WP N/A MVTR N/A	Garment trim; verify coefficient after wash
14 Segmented Reflective Tape	PES/TPU + prismatic -	Segmented tape	100-300 g/m2 50 mm cm	WP N/A MVTR N/A	Stretch/comfort reflective
15 Hi-Vis T/C 65/35	Fluorescent 65/35 PES/Cotton 20s-40s	Twill/Plain	160-260 145-160 cm	WP 0-3,000 MVTR N/A	Comfort workwear
16 Hi-Vis FR Workwear	Fluorescent FR PES/modacrylic/aramid 75-300D / yarn count	Twill/Ripstop	180-350 145-165 cm	WP 0-10,000 MVTR N/A	High-risk workwear

Read the numbers responsibly.

These notes are carried from the workbook README and should travel with every material shortlist.

PURPOSE	Outdoor & Workwear Fabric Master Spec - 100+ reference constructions for sourcing/development.
IMPORTANT	Ranges are development/market reference ranges, not universal guaranteed specifications. Final values must be confirmed by supplier TDS, approved sample and lab test.
DENIER	Denier describes yarn linear density; GSM is fabric mass. They are not interchangeable.
WATERPROOF	Hydrostatic head in mmH2O; test method and finished garment construction matter.
MVTR	Moisture vapor transmission. Different test methods can produce different values; compare like-for-like methods.
DWR	Durable water repellent surface finish; DWR alone does not make a fabric waterproof.
EN ISO 20471	High-visibility garment standard; final compliance depends on garment design, fluorescent/retroreflective materials and testing, not color alone.
EN 343	Protective clothing against rain; garment construction and seam/closure design affect final class.
FR	Flame-retardant standards are end-use specific. Select the exact standard and test method for the hazard.
PROCUREMENT	For each nominated fabric request TDS, test report, composition, GSM tolerance, width tolerance, shrinkage, colorfastness, abrasion/tear, coating/membrane details and certification scope.

PROCUREMENT CHECKLIST

Request TDS, test report, composition, GSM and width tolerance, shrinkage, colorfastness, abrasion / tear, coating or membrane details, and certification scope.
6 reference sources are listed in the workbook and can support further technical review.

Bring us the next layer.

Send a reference garment, a target cost, the market you are designing for and the protection your customer needs. Goodus can turn the shortlist into a tested sample and a production-ready program.

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GOODUS

Technical outerwear
Workwear / private label

Made in China.
Ready for everywhere.