

Kitchen Fabric Technical Specification Sheet

Pass/fail thresholds, station mapping, and wash-test log for chef uniform fabric selection

Standard: AQL 2.5 | ISO 15797 | Document ID: SPEC-CHEF-001

1. Program Overview

Complete once per program. This sheet becomes the spec every order, sample, and audit is measured against. Fill the blank cells. Seal the approved fabric against the approved sample before bulk.

FIELD	DETAIL	FIELD	DETAIL
Organization		Sites / Kitchens	
Roles Covered		Annual Volume	
Laundry Method (in-house / industrial rental)		Wash Temp °C	
Target Wash Cycles / Week		Replacement Interval (months)	
MOQ (100/style, 50 pilot)		Price Band (per garment)	

2. Kitchen Station Map

Rate each station by the six variables. Use words — Low / Medium / High — not color, so the map stays readable and shareable. The same blend rarely performs across all stations; the map is what forces a per-station decision.

STATION	HEAT	HUMIDITY / STEAM	AIRBORNE OIL	ABRASION	SHIFT LENGTH	WASH FREQ
Grill						
Sauté						
Pastry						
Prep						
Dish						
Expo						
Front-facing chef						

3. Fabric Pass/Fail Threshold Table

Use this table as the reject/approve gate before comparing suppliers. Every field must have a number. A vendor that leads with GSM alone is hiding comfort and laundry risk.

SPEC	PASS THRESHOLD	TEST METHOD	MEASURED RESULT	PASS/FAIL
Blend ratio	65/35 or 50/50 poly/cotton; 100% cotton or less	Mill spec		☐ PASS ☐ FAIL

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SPEC	PASS THRESHOLD	TEST METHOD	MEASURED RESULT	PASS/FAIL
Weave structure	2/1 or 3/1 twill; drill for heavy soil; poplin for roof-house only	Millimeter		☐ PASS ☐ FAIL
GSM by garment	Jacket 180–240; trouser 220–280; apron 240–300	Fabric gsm		☐ PASS ☐ FAIL
Air permeability	≥ 60 L/m²/s at 100 Pa	ISO 9237		☐ PASS ☐ FAIL
Moisture-wicking	Drop absorption ≤ 5 s; vertical wicking ≤ 100 mm	AATCC 197 / ISO 15957		☐ PASS ☐ FAIL
Shrinkage	≤ 3% length & width after 5 industrial washes	ISO 15797 / AATCC 135		☐ PASS ☐ FAIL
Colorfastness	Grade 4–5	AATCC 61 / ISO 105		☐ PASS ☐ FAIL
Tensile strength	≥ 400 N	ISO 13934-1		☐ PASS ☐ FAIL
Tear strength	≥ 20 N (Elmendorf)	ISO 13937-1		☐ PASS ☐ FAIL

4. Fabric Family Recommendation by Station

From the station map and threshold table, lock a recommended family for jackets, trousers, and aprons by station. Default core: 65/35 or 50/50 poly-cotton twill at 200–240 GSM. Grill line shifts to 180–200 GSM; fryer aprons to 3/1 drill 260–300 GSM.

STATION	JACKET (FABRIC / GSM)	TROUSER (FABRIC / GSM)	APRON (FABRIC / GSM)	NOTES
Grill				
Sauté				
Pastry				
Prep				
Dish				
Expo / front-facing				

5. Blend Wash-Test Comparison

Cut three jacket and three trouser panels per blend. Front-load commercial washer at 75–85 °C, gas tumble dryer on medium-high, no fabric softener. Checkpoints: 10, 25, and 50+ cycles. Insert the real observed values — do not guess.

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METRIC AFTER 50+ CYCLES	BLEND A: 65/35 POLY-COTTON TWILL	BLEND B: 50/50 POLY-COTTON TWILL	BLEND C: 100% COTTON DRILL
Shrinkage warp/weft			
Color retention / shade drift			
Seam distortion			
Hand-feel change (stiff / boardy / soft)			
Stain release after oil test			

6. Lifecycle Cost Model

Do not approve fabric by meter price. A cheaper base cloth that fails on the line before month three is the most expensive option. Fill the model before any vendor meeting.

COST DRIVER	BLEND A	BLEND B	BLEND C
Initial fabric price / meter			
Garment yield & marker efficiency			
MOQ & inventory carry			
Dye lead time (custom vs stock shade)			
Replacement frequency (months)			
Reject rate after 5th wash			
Trim failure risk			
Cost per wear day			

7. Live Wear Test & Approval Sign-off

Issue matching coats to two cooks per station, one dishwasher, and one manager. Log heat load, drying speed, stain release, mobility, fit drift after wash, and appearance retention. The clearest pass signal: staff stop tugging at the coat and stop complaining about heat mid-shift.

Chef / Kitchens sign-off:

Date:

Procurement sign-off:

Date:

Approved fabric & spec lock:

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Get stakeholder sign-off before bulk. A skipped chef sign-off can reject the whole coat — lapel popping open or heat complaints that appear only on the line. Values in this sheet are engineering targets we build to and verify per lot.