



SHUNWANG
APPAREL

QUALITY CHECKLIST

A practical inspection framework for performance swimwear, activewear and sports knit garments from material to final shipment.

Incoming QC

Cutting QC

Inline QC

Final QC

AQL

Testing

Packing

Prepared for international OEM/ODM business communication



Quality Control Workflow

Quality is managed by multiple checkpoints rather than only final inspection.

QC Workflow



Material IQC

Fabric and trims



Cutting QC

Panels and bundles



Inline QC

Sewing and process



Measurement

Size and fit



Final QC

Appearance and AQL



Packing Release

Carton and shipment



Fabric Inspection

Incoming fabric inspection



Inline Review

Production quality monitoring



Final Inspection

Workmanship and measurement check

For standard buyer programs, use clear inspection records, approved samples, material lot control, inline issue tracking, measurement review and final AQL inspection.

1. Incoming Material Inspection

Check fabric and trims before cutting to prevent bulk risk.

Incoming Fabric & Trim Checklist

Check Point	OK	NG	N/A	Notes
Fabric roll number, lot number and color lot recorded	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Fabric composition and GSM verified against BOM	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Fabric width and usable width checked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Color shade checked against approved lab dip / standard	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Fabric defects inspected and marked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Stretch and recovery checked by direction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Shrinkage or wash test reviewed when required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Print quality, direction and repeat checked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Trims checked: elastic, zipper, drawcord, cup, hardware, label	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Material approval recorded before cutting release	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

2. Fabric Testing Plan

Testing requirements should be confirmed by buyer before bulk material booking.

Test Item	Reference Method	Typical Application
Color Fastness to Washing	ISO 105-C06 / AATCC 61	Activewear, yoga wear, swimwear
Color Fastness to Perspiration	ISO 105-E04 / AATCC 15	Close-to-skin sportswear
Color Fastness to Rubbing	ISO 105-X12 / AATCC 8	Dark colors and printed garments
Chlorinated Water	ISO 105-E03	Swimwear and pool-use garments
Dimensional Stability	ISO 5077 / AATCC 135	All washable garments
Stretch & Recovery	ASTM D2594 / buyer method	Nylon/polyester/spandex knit fabrics
Abrasion / Pilling	ISO 12947 / ISO 12945	Training, cycling, compression, sportswear
UPF	EN 13758-1 / AATCC TM183	Sun protective garments when claimed
Moisture Management	AATCC TM195 / drying rate methods	Wicking or quick-dry products
Chemical Compliance	EU REACH / buyer RSL / OEKO-TEX where applicable	Export market and retailer compliance

Record report number, sample description, fabric lot, color, test method, result and pass/fail conclusion. Attach reports to the order file when required.

3. Cutting Inspection

Cutting accuracy and shade control are critical for stretch knit apparel.



Critical Cutting Controls

- Fabric relaxation before cutting.
- Marker efficiency and grain direction.
- Shade lot separation.
- Print direction and panel orientation.
- Bundle ticket and quantity accuracy.

Cutting Release Checklist

Check Point	OK	NG	N/A	Notes
Fabric relaxed according to fabric requirement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Marker checked against pattern and size ratio	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pattern grain direction and stretch direction correct	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Print / stripe / panel direction correct	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Shade lots separated and bundled correctly	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cut panels checked for size and shape accuracy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Notches, drill holes and matching points correct	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cut edge clean without distortion or damage	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

4. Sewing Inline Inspection

Inline inspection helps correct issues early and protect delivery schedule.

Inline Sewing QC Checklist

Check Point	OK	NG	N/A	Notes
Approved sample and spec sheet available on production line	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Machine setting, needle size and thread confirmed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
SPI / stitch density checked for each operation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Seam allowance and seam type match approved sample	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Elastic tension and attachment checked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Strap length, position and symmetry checked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Cup, padding, lining and support panel placement correct	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Logo, label and print placement within tolerance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Thread tension balanced with no skipped stitches or broken stitches	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Thread ends trimmed and clean finish maintained	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Measurement spot-checks performed during production	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Inline defects recorded and corrective action closed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

5. Workmanship Defect Guide

Classify defects consistently to support AQL inspection and corrective action.

Defect Class	Examples	Action
Critical	Safety issue, sharp object, broken needle, harmful contamination, wrong legal label	Reject / hold shipment
Major	Open seam, broken stitch, wrong size, incorrect label, visible stain, severe shade issue	Counts toward AQL major defects
Minor	Small thread end, slight uneven stitch, minor wrinkle, slight mark not affecting appearance	Counts toward AQL minor defects
Construction	Twisted seam, uneven elastic, asymmetric strap, poor seam recovery, puckering	Review operation and machine setting
Appearance	Oil stain, dirt, hole, fabric defect, print defect, color shade, poor pressing	Review material and finishing control
Packaging	Wrong polybag, barcode mismatch, carton mark error, wrong size ratio, poor folding	Correct before shipment release

Any broken needle, metal contamination, unsafe hardware, legal labeling error or chemical compliance concern should trigger immediate hold and management review.

6. Measurement & Fit Inspection

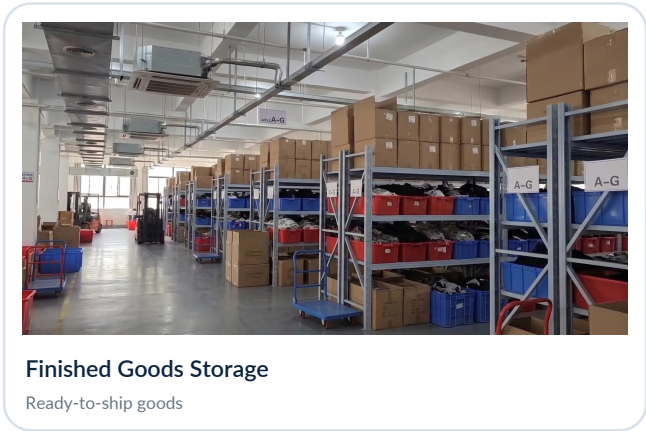
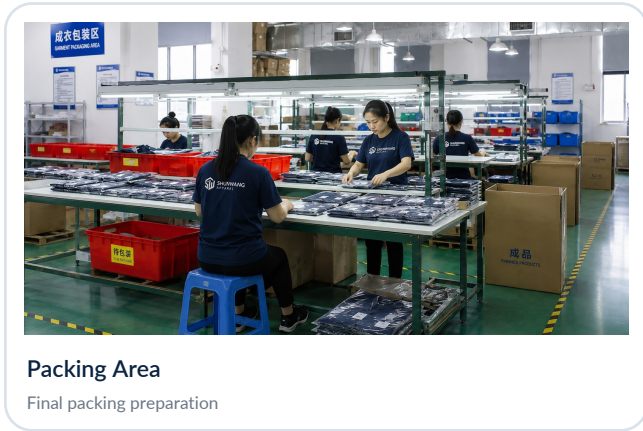
Measurement rules must be based on buyer-approved spec, tolerance and sample approval.

Measurement Inspection Checklist

Check Point	OK	NG	N/A	Notes
Correct measurement chart and revision date used	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Base size and graded sizes checked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Measurement method matches buyer POM diagram	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Garment laid flat without over-stretching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Critical POM checked first: chest, waist, hip, length, strap, inseam, rise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Stretch garments measured consistently after relaxation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Out-of-tolerance measurements recorded by size/color	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Pattern or sewing correction issued for repeated failures	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
Fit sample comments reflected in final spec	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
TOP sample measurements retained for shipment reference	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

7. Final Inspection & Packing Review

Final inspection confirms appearance, measurement, labeling, packing and carton readiness.



Final Inspection Checklist

Check Point	OK	NG	N/A	Notes
Approved sample, PO and packing instruction available	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Style, color, size and quantity checked against PO	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Appearance and workmanship checked according to AQL plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Measurements checked according to approved spec and tolerance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Main label, size label, care label and hangtag checked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Barcode, SKU and price sticker checked where required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Polybag size, warning text and recycling mark checked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Folding method and size assortment checked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Carton mark and carton quantity checked	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Final inspection report completed and approved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

8. AQL Reference & Shipment Release

Define inspection level and acceptance criteria before final inspection.

Common AQL Reference

A common apparel inspection reference is AQL 2.5 for major defects and AQL 4.0 for minor defects under a general inspection level. Buyer manuals may require different levels or special sampling plans. Always follow the purchase order, retailer manual or buyer quality agreement.

Inspection Report Must Include

- PO, style, color, size range, order quantity and inspected quantity.
- Sampling plan, AQL level, major/minor/critical defect counts.
- Measurement results, photos, packing review and final pass/fail decision.
- Corrective action record for failed or conditional inspection.

Shipment Release Checklist

Check Point	OK	NG	N/A	Notes
All PP sample comments closed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bulk production quantity matches PO and packing list	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Final inspection passed or buyer waiver received	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Measurement report completed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Packing report completed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Test reports or compliance documents attached if required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Needle/metal control record completed if required	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Carton marks verified	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Shipping documents prepared	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Shipment sample retained	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Customer approval recorded by email/system	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Goods released to warehouse or forwarder	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	