

INSEAKU Wetsuit Quality Control Checklist

Incoming materials • pre-production • IPQC • final inspection • measurements • AQL • defects • packaging • shipment release

How to use this checklist

1	Replace all blanks with the approved order-specific specification, measurement chart, defect catalogue, packaging specification and customer quality plan.
2	INSEAKU inspects every incoming material batch. The exact characteristics and method depend on the item and approved requirements.
3	Normal starting criteria: Critical defects — zero acceptance; Major — AQL 2.5; Minor — AQL 4.0. A customer's written quality plan overrides these defaults.
4	AQL is an acceptance-sampling index, not permission to ship a fixed percentage of defective goods.
5	This template does not reproduce ISO 2859-1 sampling tables. Enter the sample size and Ac/Re numbers from the authorized plan selected for the order.
6	Measurement tolerances, leak checks and performance tests are project-specific. State the method, conditioning and acceptance criteria.
7	Known nonconforming goods remain identified, isolated and on hold until corrected, reinspected and formally released.
8	This is a manufacturer template, not an independent certificate or legal/regulatory determination.

Reference context: ISO 2859-1:2026 provides AQL-indexed sampling schemes for lot-by-lot inspection by attributes. Use an authorized copy or customer-approved sampling plan to determine inspection level, sample size and acceptance/rejection numbers.

1. Order identity and approved inspection plan

Customer		PO / production order	
Style / model		Color / size range	
Order quantity		Material batch(es)	
Specification version		Sealed sample ID	
Measurement chart		Defect catalogue	
Packaging specification		Inspection location/date	
Buyer / inspector		Final release authority	

Plan field	INSEAKU normal starting value	Customer requirement	Final approved value	Notes
Critical defects	Zero acceptance			Customer plan prevails
Major defects	AQL 2.5			Customer plan prevails
Minor defects	AQL 4.0			Customer plan prevails
Lot definition				Define style/color/order grouping
Inspection level / scheme				From authorized plan
Sample size and Ac/Re				Do not guess
100% check characteristics	Per risk / customer plan			
Function / laboratory tests	Per intended use / plan			

2. Incoming quality control (IQC) — every batch

Trace each material to the purchase order, supplier, material batch and production order. Isolate questionable material before it is issued to production.

No.	Checkpoint	Requirement / method	Reference / frequency	Result	Defect class	Evidence / actual value	Action / owner
1	Batch identity and traceability	PO, supplier, supplier lot/material batch, receipt quantity and production-order link	Every incoming batch	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
2	Material/component identity	Correct foam, fabric, zipper, trim, label or packaging item	Approved specification	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
3	Foam type and thickness	Verify approved type and measure at defined locations	Material specification	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
4	Lamination condition	Bonding, bubbles, wrinkles, separation, face and stretch direction	Approved reference	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
5	Color and shade	Compare under the agreed viewing condition	Approved color reference	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
6	Surface condition	Contamination, dents, creases, holes and visible damage	Approved limit	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
7	Zippers and components	Model, length, quantity, operation and identity	BOM / approval	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
8	Labels and packaging	Artwork/version, material, size, barcode and quantity	Packaging specification	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
9	Supplier documents	Required certificate/report identity and scope	Customer plan	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
10	Disposition	Accept, written conditional acceptance, quarantine or reject	Authorized decision	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		

3. Pre-production and first-piece approval

No.	Checkpoint	Requirement / method	Reference / frequency	Result	Defect class	Evidence / actual value	Action / owner
1	Specification and sealed sample	Correct approved version and physical reference available	Before production	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
2	Pattern and grading	Correct style, size set, revision and production pattern	Before cutting	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
3	Material issue	Correct color, face/stretch direction, thickness and IQC-released batch	Each issued batch	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
4	Cutting setup	Panel identity, size, notches, pairing and required quantity	First lay / changeover	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
5	Artwork and placement	File/version, scale, color, position and orientation	First application	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
6	Components	Zipper, thread, tape, seal, reinforcement, labels and packaging	BOM / approval	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
7	Work instruction	Equipment/process settings and approved construction at station	Before operation	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
8	First-piece measurements	Record actual values vs target and tolerance	First piece / revision	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
9	First-piece workmanship	Seams, zipper, appearance and required function pass	First piece / revision	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
10	First-piece release	Dated approve/hold decision before volume continuation	Authorized sign-off	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		

4. In-process quality control (IPQC)

Inspection may be continuous, 100% at a defined station or sampling-based according to the customer quality plan. Stop and contain a process when a systematic defect is found.

No.	Checkpoint	Requirement / method	Reference / frequency	Result	Defect class	Evidence / actual value	Action / owner
1	Lamination	Correct combination, bonding, direction, surface and color	Per customer plan / risk	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
2	Printing	Artwork/version, placement, scale, color and print quality	First piece + in-process	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
3	Cutting	Pattern, size, direction, notches, pairing and panel condition	First lay + sampling	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
4	Gluing and curing	Coverage, alignment, open time and curing conditions	Per work instruction	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
5	Seam assembly	Seam type, stitch consistency, allowance and reinforcement	Per plan	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
6	Tape / liquid seal	Placement, continuity, bonding and surface condition	Where specified	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
7	Zipper installation	Model, orientation, operation, stop, reinforcement and alignment	Per plan	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
8	Measurements	Critical points within approved project tolerances	Per plan	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
9	Appearance / cleanliness	No contamination, damage, mixed parts or visible defect	Per plan	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
10	Traceability	Operator/station/time/bundle or batch reference retained	As required	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		

5. Finished wetsuit quality inspection

No.	Checkpoint	Requirement / method	Reference / frequency	Result	Defect class	Evidence / actual value	Action / owner
1	Order identity	Correct style/model, color, size and quantity	Approved order	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
2	Appearance / cleanliness	Clean, symmetrical and commercially acceptable	Sealed sample / criteria	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
3	Measurements	Critical points vs approved target, method and tolerance	Measurement chart	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
4	Seams / reinforcement	No open seam, skipped stitch, weak joint or missing reinforcement	Approved construction	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
5	Tape / liquid seal	Continuity, placement, bonding and finish	Where specified	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
6	Zipper / closure	Correct component, smooth operation, position and reinforcement	BOM / sample	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
7	Artwork / branding	Correct logo, color, placement, scale and version	Artwork approval	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
8	Labels / barcode	Correct care/content/size label and scan/identity	Packaging spec	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
9	Product-specific function	Leak, water-entry, stretch or other approved check	Intended use / plan	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		
10	Final disposition	Pass, hold, rework/reinspect or reject with evidence	Authorized decision	☐ Pass ☐ Fail ☐ N/A	☐ Critical ☐ Major ☐ Minor		

6. Measurement report

Record actual values, not only pass/fail. The approved chart must define each point, method, target and project-specific plus/minus tolerance.

No.	Size	Garment ID	Point of measure / method	Target	– Tol.	+ Tol.	Actual	Deviation	Pass / Fail	Inspector/date
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

7. Final random inspection / AQL decision record

Lot definition		Lot size	
Inspection level/scheme		Sample size	
Sampling source/plan		Inspection date	
Inspector/report no.		Buyer/third party	

Defect class	Normal starting criterion	Final plan / AQL	Ac	Re	Observed defects	Class result
Critical	Zero acceptance		0	1		
Major	AQL 2.5					
Minor	AQL 4.0					

AQL is not a permitted defect percentage. The decision depends on the approved lot, inspection level, sample size and Ac/Re numbers. The customer's written plan prevails.

8. Defect classification guidance

Class	Working definition	Project examples / notes	Required response
Critical	Unacceptable safety, legal or product-identity risk		Zero acceptance; hold and investigate
Major	Likely to affect intended use, fit, durability, saleability or an important requirement		Count against approved limit; correct/reinspect
Minor	Workmanship/appearance issue below the standard without material impairment of intended use		Count against approved limit; monitor process

The examples are planning guidance. The approved customer defect catalogue determines the final product-specific classification.

9. Nonconformity, containment and corrective action

ID / date	Order / batch	Stage	Defect / class	Affected qty	Containment	Root cause	Correction / disposition	Reinspection	Status / owner

Workflow: identify → contain/isolate → assess affected quantity → correct/rework/replace or obtain an authorized deviation → reinspect → close and release, or reject. Defective goods are not released for shipment.

10. Packaging verification

No.	Checkpoint	Requirement / method	Reference / frequency	Result	Evidence / actual value	Action / owner
1	Model / style	Correct product identity	Approved order	☐ Pass ☐ Fail ☐ N/A		
2	Color and size	Correct color/size and assortment	Packing list	☐ Pass ☐ Fail ☐ N/A		
3	Labels	Care/content/size/brand labels correct	Packaging spec	☐ Pass ☐ Fail ☐ N/A		
4	Barcode	Correct data and scan result where required	Customer plan	☐ Pass ☐ Fail ☐ N/A		
5	Polybag / accessories	Correct bag, warning, insert and accessories	Packaging spec	☐ Pass ☐ Fail ☐ N/A		
6	Carton quantity	Correct units and assortment per carton	Packing list	☐ Pass ☐ Fail ☐ N/A		
7	Carton marks	Correct PO/style/color/size/destination marks	Approved marks	☐ Pass ☐ Fail ☐ N/A		
8	Carton condition	Clean, dry, undamaged and sealed	Packaging spec	☐ Pass ☐ Fail ☐ N/A		
9	Final report package	Photos, measurements, defects, rework and report complete	Customer plan	☐ Pass ☐ Fail ☐ N/A		

11. Shipment release authorization

Release condition	Required status	Current status	Approver	Approval date	Evidence / notes
IQC released	Pass		IQC		
First-piece / preproduction	Pass		Production / QC		
IPQC complete	Pass		IPQC		
Final inspection / AQL	Pass		FQC / buyer		
All nonconformities closed	Pass		QC / production		
Shipment release	Authorized		QC + production + project/commercial		