

222-20

Swimwear Garment Testing

To be used only after fabric testing has been completed

PERFORMANCE	TEST METHOD	REQUIREMENT		
Label Verification				
Label Review	Care Label 16 CFR 423 Textile Fiber Products Identification Act 16 CFR 303 Wool Product Labeling Act-16 CFR 300 Fur Products Labeling Act – 16 CFR 301 Fur Product Identification Act – 15 U.S.C.69	Fiber Content, Care, Country of Origin, Manufacturers Registration Number, Wool Products Registration Number must meet Federal Standards. If label is not sewn to garment, artwork of the proposed care/content label must be provided.		
Tracking Label: Children's product: ALL ages	Consumer Product Safety Improvement Act of 2008 (CPSIA) SEC. 103	Refer to Kohl's Tracking Label Section in the Labeling Guideline Policy. Following information must be provided: Retailer's Name (Kohl's) Style Number/Name Factory Number Date (Month/Year)		
Adult Tracking Label: <i>**If space limitations exist, contact Kohl's Quality Assurance team to discuss minimum required information (quality.assurance@kohls.com).**</i>	Kohl's Requirement	Refer to Kohl's Tracking Label Section in the Labeling Guideline Policy. PASS/FAIL: Kohl's Assigned Factory Number Manufacture Date (Month/Year) UPC #		
Fiber Content [For filled garments, garments with lining, faux fur trim, etc., if previously not tested]	AATCC 20/20A Textile Fiber Products Identification Act 16 CFR 303 Wool Product Labeling Act-16 CFR 300 Fur Products Labeling Act – 16 CFR 301 Fur Product Identification Act – 15 U.S.C.69	One Fiber Only: No Tolerance Two or More Fibers: +/- 3% max deviation from contracted fiber content Functional Fibers i.e. Spandex: +/- 2% max deviation from contracted fiber content		
Flammability	16 CFR 1610	Class 1 Test non-exempt fabrics must be tested in every color		
Softlines Regulatory Supplemental Protocol	Refer to Protocol 501	All samples shall be reviewed against the requirements of the Softlines Regulatory Supplemental Protocol to determine if additional testing or labeling is required.		
Performance Claims Protocol (401)	Refer to Protocol 401	All samples shall be reviewed against the requirements of the Performance Claims Protocol to determine if additional testing or labeling is required		
Construction Quality				
Monofilament Thread (applicable to children only)	Visual	No monofilament thread allowed		
Drawstrings and/or Ties (Children's of ALL ages)	ASTM F 1816-97	Must Comply with Kohl's Safety Requirement where specified		
Fragile Trims	Visual	Sizes 0-5T: Must comply with Kohl's Safety Requirement Sizes over 5T & Adult: Report Actual Findings		
Zipper Guard	Visual	Present – Refer to Product Safety Policy		
Hook & Loop Fasteners	Visual	Must have rounded corners – Refer to Product Safety Policy		
Sharp Points & Sharp Edges	CPSC 16 CFR 1500.48 - 49	No sharp points or sharp edges – Refer to Product Safety Policy		
Presence of Hygienic Liner	Visual Evaluation	Liner should be present		
Physical Properties				
Dimensional Change to Home Laundering or Hand Wash (Differential Shrinkage between different fabrication should not exceed 2%)	AATCC 150 (3 washes) AATCC/ASTM TS-006 (3 washes) (Length X Width) AATCC LP2 Tide® Powder Detergent (maximum)	KNITS		
		FIBER CONTENT	FABRIC TYPE	SHRINK
		100% COTTON	Jersey	6x6
			Interlock, 1x1 rib, 2x2 rib	6x6
			Thermal (waffle)	6x6
		CVC & Cotton Rich Stretch	Jersey	6x6
			Interlock, 1x1 rib, 2x2 rib	6x6
			Fleece, French Terry	6x6
			Thermal (waffle)	6x6
		100% POLY	Jersey	5x5
			Interlock	5x5
			1x1 rib, 2x2 rib, Thermal	6x6
			Fleece, French Terry	5x5
POLY/COTTON	Jersey, Interlock	5x5		

			1x1 rib, 2x2 rib, Thermal	6x6
			Fleece, French Terry	5x5
		100% RAYON, Rayon/Spandex, Poly/Rayon, Poly/Rayon/Spandex	Jersey	6x6
			1x1 rib, 2x2 rib	6x6
Allow 1% Growth Only				
		Wovens	Tier 1	Tier 2
		Shrinkage %	3x3	2x2
		Shrinkage % (Flannels/Dobby/Seersucker)	4x4	2x2
		growth %	1x1	1x1
Appearance Retention	AATCC/ASTM TS-008 Modified Tide ® Powder Detergent	Must meet all applicable Kohl's Appearance Evaluation Requirements		
		Torque(max)	Tier 1	Tier 2
		Knits	5%	3%
		Wovens	3%	2%
Seam strength -Knits	ASTM D 3786 lb/sq.in (min)		Tier 1	Tier 2
		< /= 4.0 oz / sq yd	30	30
		> 4.0 oz/ sq yd	35	35
		Laces, Mesh	15	15
		Functional Pockets-Seam Strength	15	15
		Non-Functional Pockets-Seam Strength	Data	Data
PERFORMANCE		TEST METHOD		REQUIREMENT
Seam Strength/ Slippage -Wovens	ASTM D 1683 lbs. (min) Record seam slippage at 1/4" opening of seam	Functional Seams	Tier 1	Tier 2
		</= 3.0 oz/sq yd	20/15	20/15
		3 .1- 6 oz/sq yd	25/15	30/20
		6.1- 9.0 oz/sq yd	25/20	35/20
		>9.0 oz / sq yd	40/20	50/20
		Functional Pockets-Seam Strength	15	15
		Non-Functional Pockets-Seam Strength	Data	Data
Attachment Strength* A) Applies to all Rings/Sliders B) Applies to Buttons, Snaps, Small Parts, Belt Loops, Zipper Tab, etc. C) Applies to Plastic Hanger Loops D) Over 5T-Adult: Fragile Trims: Beads, Rhinestones, etc.	16 CFR 1500.51-53 Pt. F (Saf Q)	<p>A) REQUIREMENT (for all garments): No detachment at 25 lbs. DATA ONLY: Report the point at which the trim fails, or if there is no detachment at 50 lbs.</p> <p>B) REQUIREMENT: Over 5T - Adult: No detachment at 17 lbs. for 10 seconds Exceptions: Buttons: 20lbs DATA ONLY: Report the point at which the trim fails, or if there is no detachment at 50 lbs.</p> <p>C) REQUIREMENT: No detachment at 5 lbs. DATA ONLY: Report the point at which the trim fails, or if there is no detachment at 50 lbs.</p> <p>D) REQUIREMENT: 5 lbs. for 10 seconds minimum</p>		
Colorfastness Properties				
Colorfastness to Crocking	AATCC 8/116 (min) Original State If results fail in original state, perform after 1 Wash/Dry Cycle	All fabrics (except listed below):		
			Tier 1	Tier 2
		dry	4.0	4.0
		wet	3.0	3.0
		Pigment Dyed/Printed, Lightly Brushed, Sand Washed, Piled, Sulphur, Denim, Indigo & Silk blends:		
		dry	3.5	3.5
		wet	2.0	2.0
Colorfastness to Water **Colorblock & Contrast Trims**	AATCC 107	Shade Change : Grade 4 min Self Staining: Grade 4 min Multi-fiber Staining: Grade 4.0 min		
Colorfastness to Chlorinated Pool Water	AATCC 162	Shade Change: Grade 3.5 min		
Colorfastness to Seawater	AATCC 106	Shade Change : Grade 3.5 min Self Staining: Grade 4 min Multi-fiber Staining: Grade 4.0 min		

Colorfastness to Light	AATCC 16.3-2012 10 AFU & 20 AFU	All Colors (except listed below): Shade Change: 10 AFU: Grade 4.0 min 20 AFU: Grade 3.5 min Neons/Brights/Whites/Pastels: Shade Change: 10 AFU: Grade 3.0 min 20 AFU: Grade 2.0 min						
Colorfastness to Perspiration-Acid Only *	AATCC 15	Shade Change : Grade 4 min Self Staining: Grade 4 min Multi-fiber Staining: Grade 4.0 min						
Analytical Test								
Attachment Strength 0-5T* Applies to ALL trims No fragile trims allowed	16 CFR 1500.51-53 Pt. F (Saf Q)	0-5T: No detachment at 17lbs for 10 seconds (no exceptions) **Must test in original state, after 1 wash, and after 5 washes						
Formaldehyde	Kohl's TM-5 JIS L 1041:2011 Sec. 8.1.3 & 8.1.4 Method A or B	Negative, If Spot Test is Positive, proceed with step 2 Children over 5T & Adults = 75 ppm max. Children's 0-5T = 20 ppm max.						
REQUIRED WHERE APPLICABLE AT ADDITIONAL COST								
Stretch & Recovery /Tension & Elongation **For garments containing Spandex ** Loose fitting- Note on test report	ASTM D4964-96(2012) E1 Modification: Take two 7.0 inch long width specimens from a large area of the garment, align the panels with face side out, stitch the two panels and parallel to the width of the specimen. Place another stitch at 5.0 inch from the first stitch, to create 5.0 inch loop circumference specimen **If garment submission is too small - take the largest size possible	To be recorded as DATA ONLY: Growth: Report Elongated distance & percentage after 60 seconds & 30 minutes. PASS/FAIL: Recovery: 85% min after 60 seconds. Recovery: 85% min. after 30 minutes Report modulus at 30%, 50% & 70%. Report Elongation at 10 lbs						
Zipper Tab Twist (Children's Sizes 0-5T)	ASTM F 963	All Decorative (3 or more parts) Zipper Pulls must meet 4.0 in./lbs. minimum						
TOXICOLOGY TESTING- REQUIRED WHERE APPLICABLE AT ADDITIONAL COST								
Corrosion Resistance	Kohl's TM-6 Option A	No corrosive oxidation or discolorization						
Nickle Content	Kohl's TM-18	Negative						
Total Lead in Substrate Material * (Accessible components)	CPSC-CH-E1002-08.1/CPSC-CH-E1001-08.1	Children's of ALL ages & Adults - ≤ 90 ppm max (0.009% total weight) Refer to Kohl's Product Safety Policy for additional requirement on Composite Testing						
Lead Content in Surface Coating – Scrapeable in each color*	CPSC-CH-E1003-09.1	Children of ALL Ages: <90 ppm (0.009% total weight) Adults: <90 ppm max (0.009% total weight) Refer to Kohl's Product Safety Policy for additional requirement on Composite Testing						
Phthalates content	Consumer Product Safety Improvement Act of 2008 / 16 CFR 1307 / CPSC-CH-C1001-09.4 (Mod)	Children's toys and childcare articles, before and after use and abuse testing, shall not contain concentrations of more than 0.1% BBP, DBP, DEHP, DINP, DIBP, DPENP, DHEXP, DIDP, DNOP, or DCHP individually. Component testing is allowed. Compositing up to 3 like materials is allowed. Product manufactured and imported as of April 25, 2018 must comply.						
Soluble Heavy Metals * Applies to Children's Toys	ASTM F 963	Children's Toys – Defined as a consumer product designed or intended by the manufacturer for a child, for use by the child when the child plays. Required for children's toys of ALL ages Mercury - 60 ppm Antimony - 60 ppm Arsenic - 25 ppm Selenium - 500 ppm Barium - 1000 ppm Cadmium - 75 ppm Chromium - 60 ppm Lead - 90 ppm						
Lead, Cadmium and Phthalate* Applicable to children product including: - Child car seats - Clothing - Cosmetics for children under the age of 12 - Jewelry for children under the age of 12 - Products to help a child with sucking or teething, to facilitate sleep, relaxation, or the feeding of a child	<u>Lead and Cadmium</u> EPA SW 846 Method # 3050B/3051 (Mod.) / CPSCCH-E1003-09.1/ CPSC-CHE1002-08.1 / CPSC-CHE1001-08.1 <u>Phthalate</u> CPSC-CHC1001-09.4	Washington Children's Safe Products Act ≤ 90 ppm (Lead) ≤ 40 ppm (Cadmium) ≤ 0.1% (BBP, DBP, DEHP, DIDP, DINP, DNOP, DnHP, DIBP, DnPP, DCHP) (individually or in combination) Note: Actual test would be performed on below suggested accessible materials. <table border="1"> <thead> <tr> <th>Substances</th> <th>Suggested materials</th> </tr> </thead> <tbody> <tr> <td>Lead</td> <td>Follow CPSC lead</td> </tr> <tr> <td>Cadmium</td> <td>Follow CPSC lead</td> </tr> </tbody> </table>	Substances	Suggested materials	Lead	Follow CPSC lead	Cadmium	Follow CPSC lead
Substances	Suggested materials							
Lead	Follow CPSC lead							
Cadmium	Follow CPSC lead							

		Phthalates	Coating & Plasticized materials	
		The Washington standard cannot be enforced for products to which a federal standard applies.		
ADDITIONAL COLORWAY TESTING				
Colorfastness to Chlorinated Pool Water	AATCC 162	Shade Change: Grade 3.5 min		
Colorfastness to Seawater	AATCC 106	Shade Change : Grade 3.5 min Self Staining: Grade 4 min Multi-fiber Staining: Grade 4.0 min		
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		Pigment Dyed/Printed, Lightly Brushed, Sand Washed, Piled, Sulphur, Denim, Indigo & Silk blends:		
		dry	3.5	3.5
wet	2.0	2.0		

PROTOCOL VERSION	DESCRIPTION OF CHANGE	DATE REVISED	APPROVED BY
222-1	1. Creation of swimwear protocol	Jackie Deppisch Oct 2018	Jackie Deppisch Oct 2018
222-2	1. Updated S&R requirements 2. Added hygienic panty liner requirement 3. Updated format 4. Updated Formaldehyde test method to be most current 5. Updated Washington State Law to include Coated materials 6. Removed "Ultra" from Tide detergent 7. Updated test method to be most current for Soluble Heavy Metals	Jackie Deppisch Charlene Swanson January 2019	Jackie Deppisch Charlene Swanson January 2019
222-3	1) Updated Tracking Label to include Adult Tracking Label requirements 2) Updated Stretch & Recovery to be when applicable - pending no washes or finishes have been applied	Jackie Deppisch March 2019	Jackie Deppisch March 2019
222-4	1) Updated Adult Tracking label to be marked as DATA ONLY	Jackie Deppisch March 2019	Jackie Deppisch March 2019
222-5	1) Updated S&R requirements	Jackie Deppisch March 2019	Jackie Deppisch March 2019
222-6	1) Updated hand wash requirement to AATCC LP2 2) Updated Phthalates requirement to CPSC-CH-C1001-09.4 (Mod).	Becky Becker April 2019	Becky Becker April 2019
222-7	1) Updated Attachment Strength 2) Added tension & elongation testing	Jackie Deppisch May 2019	Jackie Deppisch May 2019
222-8	1) Updated attachment strength requirements to separate out by adult & children's	Elizabeth Armstrong Aug 2019	Elizabeth Armstrong Aug 2019
222-9	1) Revised attachment strength requirements	Elizabeth Armstrong Aug 2019	Elizabeth Armstrong Aug 2019
222-10	1) Added Lead Content Surface Coating test	Charlene Swanson October 2019	Charlene Swanson October 2019
222-11	Updated S&R requirements	Jackie Deppisch November 2019	Jackie Deppisch November 2019
222-12	1) Updated to combine S&R and T&E into one TM 2) Updated Adult Tracking Label from DATA to REQUIRED	Jackie Deppisch March 2020	Jackie Deppisch March 2020
222-13	1) Updated S&R requirements	Charlene Swanson March 2020	Charlene Swanson March 2020
222-14	1) Updated S&R requirements	Charlene Swanson April 2020	Charlene Swanson April 2020
222-15	Removed tier 3 from the protocol	Elizabeth Armstrong Aug 2021	Elizabeth Armstrong Aug 2021
222-16	1) Added test line for all performance claims	Becky Becker March 2022	Becky Becker March 2022
222-17	Added 501 Supplemental Labeling	Jackie Deppisch November 2022	Jackie Deppisch November 2022
222-18	Removed year from ASTM F963 test	Violet Nelson Feb 2024	Violet Nelson Feb 2024
222-19	No change to requirements, fixed formatting	Elizabeth Armstrong Oct 2024	Elizabeth Armstrong Oct 2024
222-20	1. Updated Total Lead in Substrate requirement to be 90 ppm instead 2. Updated Phthalates to include DNOP and DIDP per labs adviserment	Jackie Deppisch Jan 2025	Jackie Deppisch Jan 2025