

PROTOCOL # 701-24

Towels - Bath/ Hand/ Tip/ Wash/ Beach, Bath Mats

Performance Test	Test Method	Requirement
Initial Package		
Label Verification		
Label Review	Care Labeling 16 CFR 423 16 CFR 300/ 19 CFR 134 Textile Fiber Products Identification Act 16 CFR 303 Wool Products Labeling Act	Verify Information on TRF matches the label Fiber content, Care, Country of Origin, Manufacturers Registration Number, Wool Products Registration Number must meet Federal Standards If labeling or packaging is not attached to product, artwork must be provided
Tracking Label: Children's product: ALL ages	Consumer Product Safety Improvement Act of 2008 (CPSIA) SEC. 103	<u>Refer to Kohl's Tracking Label Section in the Labeling Guideline Policy.</u> <u>Following information must be provided:</u> 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 & Product Integrity teams to discuss minimum required information (quality.assurance@kohls.com, product.integrity@kohls.com).**</i>	Kohl's Requirement	TO BE MARKED AS PASS/FAIL Can be included on packaging when necessary: Kohl's Assigned Factory Number Manufacture Date (Month/Year) UPC #
Packaging Review Actual packaging or artwork must be provided	FPLA/ UPLR 16 CFR 500 & 19 CFR 134	Should be legibly marked with the following information and verified: -Distributor's name, trademark or other means of identification of the manufacturer or packer and address (City, State, Zip) -Product identification - Net quantity of the contents in terms of weight, measure or numerical count (metric & US standard) or a combination so as to give accurate information and facilitate value comparison by the consumer (if applicable) -Country of origin (if imported) -Product Size (if applicable) Refer to Kohl's FPLA/ UPLR guideline

Import Permit (For Natural Materials Only)	US Department of Agriculture Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ)	Product shall not have prohibited materials present per US Department of Agriculture, Animal and Plant Health Inspection Service (APHIS), Plant Protection and Quarantine (PPQ) Documentation and/ or proper permit(s) for specific product shall be supplied along with Testing Request form and samples. Permit information may be found at: https://www.aphis.usda.gov/wps/portal/aphis/home/ It is the vendor's responsibility for the compliance to relevant requirements.
Performance Claims for Home Textile Products (1000)	Refer to Protocol 1000	All samples shall be reviewed against the requirements of the Performance Claims for Home Textile Products Protocol to determine if additional testing or labeling is required
Physical Properties		
Fiber Content	AATCC 20/ 20A Wool Products Labeling Act	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
Count	ASTM D 3775	Report Actual Data
Fabric Weight (For bound and sewn hems)	ASTM D 3776 Option C	+/- 5% max (oz/sqyd) deviation from contracted weight
Product Weight	ASTM D 3776	+/- 5% max (oz/sqyd) deviation from contracted weight (lbs/doz & lbs, ounces of 1 towel) Test on all sizes
Product Size	Kohl's TM-8	If claimed on packaging: Refer to Kohl's Private Brands Construction Standards document (under TD tab) for tolerances If not claimed on packaging: Report Actual
Yarn Size	ASTM D 1059	Contracted Yarn Size: +/- 5% max deviation
Flammability	ASTM D 1230	Class 1
Lint Loss	Kohl's TM-4	Lint Loss: 1% maximum for 1 towel
Performance Test	Test Method	Requirement
Analytical		
Tech Pack Verification*	Visual Check	Verify all claims mentioned in Tech Pack file
Formaldehyde - Adults & children over 5T	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/ inconclusive, proceed with step 2 Children over 5T & Adults = 75 ppm max.
Formaldehyde - Children's 0-5T	JIS L 1041:2011 Sec. 8.1.3 & 8.1.4	Children 0-5T = 20 ppm max.
pH Value	AATCC 81	All colorways: 5.0-8.0 (No Tolerance)
CA Prop 65* (if applicable)	Refer to protocol 1300	All samples shall be reviewed against the requirements of California Prop 65

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.	
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	
Dimensional Change			
Dimensional Change to Home Laundering (entire sample to be washed)	AATCC 150 (after 3 washes) (Length X Width) Tide® Powder Detergent		Tier 1
		Flat Weave/ Terry	-5% max
		Waffle Weave	-6% max
		Dobby Shrinkage: of towel/ mat shrinkage	+/- 1.5%
		Growth	+ 2% max
		**For Dobby shrinkage: Report data. Pass and Fail only based on measurement of the towel length & width Tier 2: Use same requirements as Tier 1, evaluate after 3 and 5 washes	
Appearance Retention	AATCC/ASTM TS-008 Modified	Must meet all applicable Kohl's Appearance Evaluation	
Strength & Durability			
Tensile Strength	ASTM D 5034 (CRT/CRE Tensile Testing Machine)	Tier 1	30 lbs min.
		Tier 2: Use same requirements as Tier 1, evaluate original stat & after 5 washes or 1 dry clean	
Surface Water Absorbency of Terry Fabrics (Excludes washcloths and washpacks)	ASTM D 4772 (Use alternate sample prep procedure; section 8.2 & perform A/3 laundering cycles)	Tier 1	Tier 2
		<u>Terry/ Microfiber:</u> 65% min	<u>Terry/ Microfiber:</u> 80% min
		<u>Sheared Loop (Velour):</u> 50% min	<u>Sheared Loop (Velour):</u> 60% min
		Highly absorbent: 80-90% min	
		Superior absorbency: Greater than 90%	
Colorfastness			
Colorfastness to Crocking	AATCC 8/116	<u>All fabrics/ dyes (except listed below):</u> <u>Dry - Grade 4 min</u> <u>Wet - Grade 3 min</u> <u>Pigment Dyed/ Printed, Direct Dye, Vat Dye, Sulfur, Lightly Brushed, Piled, Indigo:</u> <u>Dry - Grade 3.5 min</u> <u>Wet - Grade 2 min</u>	
Colorfastness to Water	AATCC 107	Shade Change	Grade 4 min.
		Self-staining	Grade 4 min.
		Staining	Grade 4 min.
Colorfastness to Chlorine Bleach	AATCC/ASTM TS-001	Shade Change	Grade 4 min
Performance Test	Test Method	Requirement	
ADDITIONAL COLORWAY TESTING			
Surface Water Absorbency of Terry Fabrics (Excludes washcloths and washpacks)	ASTM D 4772 (Use alternate sample prep procedure; section 8.2 & perform A/3 laundering cycles)	Tier 1	Tier 2
		<u>Terry/ Microfiber:</u>	<u>Terry/ Microfiber:</u>
		<u>Sheared Loop (Velour):</u> 50% min	<u>Sheared Loop (Velour):</u> 60% min

		Highly absorbent: 80-90% min Superior absorbency: Greater than 90%
Appearance Retention	AATCC/ASTM TS-008 Modified Tide® Powder Detergent	Must meet all applicable Kohl's Appearance Evaluation Requirements
Colorfastness to Chlorine Bleach AND Non-Chlorine Bleach	AATCC/ASTM TS-001	Shade Change Grade 4 min
Colorfastness to Crocking	AATCC 8/116	<u>All fabrics/ dyes (except listed below):</u> <u>Dry - Grade 4 min</u> <u>Wet - Grade 3 min</u> <u>Pigment Dyed/ Printed, Direct Dye, Vat Dye, Sulfur, Lightly Brushed, Piled, Indigo:</u> <u>Dry - Grade 3.5 min</u> <u>Wet - Grade 2 min</u>
Colorfastness to Water	AATCC 107	Shade Change Grade 4 min. Self-staining Grade 4 min. Staining Grade 4 min.
Flammability	ASTM D 1230	Class 1 non-exempt fabrics must be tested in every color
Formaldehyde - Adults & children	Kohl's TM-5	Negative, If Spot Test is Positive/ inconclusive, proceed with
Formaldehyde - Children's 0-5T	JIS L 1041:2011 Sec. 8.1.3 & 8.1.4 Method A or B	Children 0-5T = 20 ppm max.
pH Value	AATCC 81	white colorways: 5.0-7.0 all other colorways: 6.0 - 8.0
OPTIONAL TESTING -(required where applicable at additional cost)		
Colorfastness to Light * (Beach towels only)	AATCC 16 Option 3 10AFU & 20 AFU	<u>All Colors (except listed below):</u> Shade Change: 10 AFU: Grade 4.0 min 20 AFU: Grade 3.5 min <u>Neons/ Brights/ Whites/ Pastels:</u> Shade Change: 10 AFU: Grade 3.5 min 20 AFU: Grade 3.0 min
Colorfastness to Chlorinated Pool Water* (Beach Towels only)	AATCC 162	Shade Change Grade 3.5 min Fiber Reactive Towels Shade Change: Grade 2.5 min
Colorfastness to Sea Water* (Beach Towels Only)	AATCC 106	Shade Change Grade 4 min Self-Staining Grade 4.5 min Staining Grade 3 min

<p>Attachment Strength*</p> <p>A) Applies to all Rings/Sliders</p> <p>B) Applies to Buttons, Snaps, Small Parts, Belt Loops, Zipper Tab, etc.</p> <p>C) Over 5T-Adult: Fragile Trims: Beads, Rhinestones, etc.</p>	<p>16 CFR 1500.51-53 Pt. F (Saf Q)</p>	<p>A) REQUIREMENT: 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: 5 lbs. for 10 seconds minimum</p>
Performance Test	Test Method	Requirement
OPTIONAL TESTING - (required where applicable at additional cost)		
Sharp Points & Sharp Edges*	CPSC 16 CFR 1500.48 - 49	No sharp points or sharp edges - Refer to Product Safety Policy
Flammability* (small bath mats with surface area less than 24 sq. ft.)	16 CFR 1631	Must Comply or Labeled Appropriately ("Flammable Fails U.S. Department of Commerce Standard FF-2-70: Should not be used near sources of ignition")
Resistance to Saliva for Children's Products*	64 LFGB B82.92-3 Part 1	Staining Grade 4 min Color Change Grade 4 min
Torque Tests for Removal of Components* (Children's products)	ASTM F 963 (table 5)	16 CFR 1500. No safety hazards
Tension Test for Removal of Components* (Children's products)	ASTM F 963 (Table 5)	16 CFR 1500. No safety hazards
OPTIONAL TESTING - TOXICOLOGY TESTING (required where applicable at additional cost)		
Lead Content in Surface Coating -	CPSC-CH-E1003-09.1	Children & Adult Products ≤ 90 ppm (0.009% total weight)
Total Lead in Substrate Material*	CPSC-CH-E1002-08.3/ CPSC-CH-E1001-08.3	Children of ALL ages - Accessible components in each part/ material ≤ 100 ppm (0.010% total weight)
Phthalates in each plasticized part/ material such as PVC, Vinyl*	CPSC-CH-1001.09.3	<p>Applies to ALL Children's Products</p> <p>≤ 1000 ppm max (0.1% max total) BBP, DBP, DEHP, DINP, DIDP, DNOP</p> <p>≤ 1000 ppm max (0.1% max each individual) DCHP, DIBP, DnHP/DHEXP, DPP/DPENP</p> <p>ALL Adult products</p> <p>≤ 1000 ppm max (0.1% max total) BBP, DBP, DEHP, DINP, DIDP, DNOP</p> <p>≤ 1000 ppm max (0.1% max each individual) DCHP, DIBP, DnHP/DHEXP, DPP/DPENP</p>

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 Phthalates* 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	Lead and Cadmium EPA SW 846 Method # 3050B/3051 (Mod.) / CPSCCH-E1003-09.1/ CPSC-CHE1002-08.1 / CPSC-CHE1001-08.1 Phthalate CPSC-CHC1001-09.3	Washington Children's Safe Products Act ≤ 90 ppm (lead) ≤ 40 ppm (Cadmium) ≤ 0.1% (max total) BBP, DBP, DEHP, DINP, DIDP, DNOP ≤ 0.1% (max each individual) DCHP, DIBP, DnHP/DHEXP, DPP/DPENP Note: Actual test would be performed on below suggested accessible materials. <table border="1" data-bbox="889 766 1573 913"> <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> <tr> <td>Phthalates</td> <td>Coating & Plasticized materials</td> </tr> </tbody> </table> The Washington standard cannot be enforced for products to which a federal standard applies.	Substances	Suggested materials	Lead	Follow CPSC lead	Cadmium	Follow CPSC lead	Phthalates	Coating & Plasticized materials
Substances	Suggested materials									
Lead	Follow CPSC lead									
Cadmium	Follow CPSC lead									
Phthalates	Coating & Plasticized materials									

(*) asterisk = ALL COLORWAYS MUST BE TESTED

Minimum Sample Size Necessary for Testing

Recommended Size - Medium

Initial Package

Bath/ Beach Towels = 6 finished products
Hand/ Tip/ Wash Towels = 12 finished products
Bath Mats = 8 finished products

Additional Colorways

Bath/ Beach Towels = 4 finished products
Hand/ Tip/ Wash Towels = 8 finished products
Bath Mats = 6 finished products

Toxicology Testing

Consult with Lab for the number of samples

Pricing: Please refer to Kohl's preferred third party labs for individual pricing

Turn Around Time = 4-5 working days
Toxicology Testing = 6 working days

PROTOCOL VERSION	DESCRIPTION OF CHANGE	DATE REVISION/
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701-1	<ol style="list-style-type: none"> 1) Label review – added 16 CFR 300/ 19 CFR 134 and verify information on TRF matches the label 2) Added tracking label 3) Updated Formaldehyde test method 4) Tensile strength – added CRT/CRE Tensile Testing Machine 5) Colorfastness to chlorinated pool water – added requirement for fiber reactive towels – shade change: Grade 2.5 6) Resistance to Saliva – Changed method from 35 LMBG 82.10 to 64 LFGB B82.10-1. 7) Added toxicology testing to optional testing section 	Amy Her/ Aug 2011
701-2	<ol style="list-style-type: none"> 1) Added Ultra to the Tide ® detergent 2) Added packaging review 3) Added yarn size and product size to the initial testing package 4) Updated requirement for product weight to ± 5% max and to be tested on all sizes and to include the weight in lbs, ounces of one towel 5) For formaldehyde test included “if positive/inconclusive proceed with step 2” also updated requirement for children to 20 ppm 6) Updated testing requirements for dimensional stability, tensile strength and surface water absorbency to include requirements for tier 1, tier 2 & tier 3 7) Updated the c/f to crocking requirement for pigment dyed/printed, etc. To dry grade 3.5 8) Added pH testing to initial and additional colorway testing 9) Attachment strength included, evaluate small parts and added requirement for fragile trims for tier 1, tier 2, & tier 3 10) Added tensile strength to the additional colorway package for silver brands. 11) Added tension and torque tests to the optional testing section 12) Updated test method for Resistance to saliva to 64 LFGB B82.92-3 Part 1 13) Updated test method for toxicology tests 	Kristi Sachs/ Jan 2014
701-3	<ol style="list-style-type: none"> 1) For packaging review added that artwork can be submitted as well as updated the product size to be if applicable 2) Updated Tier 2/3 testing requirements for dimensional change and tensile strength 3) Removed tensile strength test from additional colorway testing 4) For additional colorway testing removed “Only for Tier 1 brands” 5) Updated “Face” to “Wash” in Protocol header; added “Tip” 6) Under Physical Properties: Added Fabric Weight 	Kristi Sachs/ Sept 2014
701-4	<ol style="list-style-type: none"> 1) Removed pricing from protocol 	J. Deppisch/ Nov 2014
701-5	<ol style="list-style-type: none"> 1) Added phthalates requirement for adults 	J. Deppisch/ Dec 2014
701-6	<ol style="list-style-type: none"> 1) Updated surface water absorbency test to also exclude washpacks 	J. Deppisch/ May 2015
701-7	<ol style="list-style-type: none"> 1) Updated product size to include tech design's MCS tolerances 	J. Deppisch/ Sept 2015

701-8	1) Added Lead, Cadmium, and Phthalate testing for children	Charlene Swanson/July 2017
701-9	1) Updated Tide detergent to be correct 2) Updated formaldehyde to be up to date 3) Updated formaldehyde for children 4) pH value updated for whites and colors 5) Updated Phthalates testing	Charlene Swanson/January 2018
701-10	1) Added Prop 65 testing 2) Added DIDP back to Phthalates testing 3) Corrected typo on formaldehyde testing	Charlene Swanson/February 2018
701-11	1) Updated pH value to be 5.0-8.0 (no tolerance) 2) Updated phthalates for Washington Law to include coated materials 3) Updated Soluble Heavy Metals to ASTM F 963-17	Charlene Swanson/October 2018
701-12	1) Updated Tracking label to include Adult Tracking Label requirements	Jackie Deppisch/March 2019
701-13	1) Updated Adult Tracking Label to be marked DATA ONLY	Jackie Deppisch/March 2019
701-14	1) Added Import Permit label requirement 2) Updated phthalates testing requirements for max and individual totals	Charlene Swanson/April 2019
701-15	1) Updated attachment strength requirements and added regulatory requirements for ages 0-5T	Charlene Swanson/August 2019
701-16	1) Updated Attachment strength for both performance and regulatory	Charlene Swanson/August 2019
701-17	1) Removed "all garments" from Attachment strength testing and plastic hanger loop testing 2) Added Lint Loss test to be data only	Charlene Swanson/ September 2019
701-18	1) Updated Lint Loss test to be pass/fail, instead of "data" 2) Removed tiers from Lint Loss testing 3) Noted Option C for Fabric Weight test 4) Updated waffle weave shrinkage allowance to -6% instead of -10% 5) Updated Dobby shrinkage requirements for Dimensional Stability	Charlene Swanson/October 2019
701-19	1) Added Tech Pack Verification	Charlene Swanson/November
701-20	1) Updated Adult Tracking Label to REQUIREMENT	Jackie Deppisch/ March
701-21	1) Updated tiering in all applicable test lines to just show tier 1 and	B. Becker/ September 2021
701-22	1) Added test line for all performance claims	March 2022 / Becky Becker
701-22	No update made, just adjusted formatting so all test line could be read	July 2022 Elizabeth Armstrong
701-23	Added testline Softlines Regulatory Supplemental Protocol	Violet Nelson Oct. 31, 2022
701-24	Removed year from ASTM F963 test	Violet Nelson / Feb 2024