

Graphic Program SOP

PERFORMANCE	TEST METHOD	REQUIREMENT		
STAGE 1 TESTING				
PHYSICAL PROPERTIES				
Fiber Content	AATCC 20 / 20A 16 CFR 303 Wool Products Labeling Act- 16CFR 300 Fur Products Labelling Act - 16CFR 301 Fur Products Identification Act -15 U.S.A 69	One Fiber Only: No Tolerance Two or More Fibers: +/- 3% deviation from the contracted fiber content. Functional Fibers i.e Spandex: +/- 2% max deviation from the contracted fiber content.		
Fabric Weight	ASTM D 3776	Deviation from contracted weight (g/m ² OR oz/yd ²): +/- 5% maximum		
Flammability	16 CFR 1610 16 CFR 1615/1616	Class 1 Non-exempt fabrics must be tested in every color Pass (Acceptance Criteria)		
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		
Dimensional Change to Home Laundering, Dry Cleaning or Hand Wash	AATCC 135 (3 washes) AATCC LP2 (Length X Width) Tide® Powder Detergent	KNITS		
		FIBER CONTENT	FABRIC TYPE	SHRINK
		100% COTTON	Jersey	6x6
			2x2 rib	6x6
			Thermal (waffle)	6x6
		CVC & Cotton Rich Stretch	Jersey	6x6
			Interlock, 1x1 rib, 2x2 rib	6x6
			Fleece, French Terry	6x6
		100% POLY	Thermal (waffle)	6x6
			Jersey	5x5
			Interlock	5x5
			1x1 rib, 2x2 rib, Thermal	6x6
		POLY/COTTON	Fleece, French Terry	5x5
			Jersey, Interlock	5x5
			1x1 rib, 2x2 rib, Thermal	6x6
100% RAYON, Rayon/Spandex, Poly/Rayon, Poly/Rayon/Spandex	Jersey	6x6		
	1x1 rib, 2x2 rib	6x6		
AATCC 158 (1 cycle) (maximum)	Dry Clean Items			
	Shrinkage %	2x2	2x2	2x2
	growth %	1x1	1x1	1x1
Allow 1% Growth Only				
Appearance Retention	AATCC/ASTM TS-008 Modified Tide® Powder Detergent	Must meet all applicable Kohl's Appearance Evaluation Requirements		
		Knit Torque	Tier 1	Tier 2
		Woven Torque	5%	3%
Tensile Strength	ASTM D 5034	Tier 1	Tier 2	
		< /= 3.0 oz/sq yd	20 x 15	20x15
		3.1 to 6 oz sq /yd	25x20	30x25
		6.1 to 9 oz/sq yd	40 x35	45 x 40
		>9oz/ sq yd	60x40	75 x 50
Tear Strength	ASTM D 1424 in lbs. (min)	Tier 1	Tier 2	
		< /= 3.0 oz/sq yd	1.5x1.0	2.0 x 1.5
		3.1 to 6 oz sq /yd	2.0x1.5	2.5x2.0
		6.1 to 9 oz/sq yd	2.5x2.0	3.0x2.0
		>9oz/ sq yd	3.5 x 3.0	3.5 x 3.0

Bursting Strength	ASTM D 3786		Tier 1	Tier 2
		< /= 4 oz/ sq yd	30	40
		> 4 oz/ sq yd	40	50
Seam Strength/ Slippage -Wovens	ASTM D 1683 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 to 6 oz /sq /yd	25/15	30/20
		6.1 to 9 oz/sq yd	25/20	35/20
		>9.0 oz / sq yd	40/20	50/20
		Functional Pockets- Seam Strength	15	15
		Non-Functional Pocket- Seam Strength	Data	Data
Seam strength -Knits	ASTM D 3786		Tier 1	Tier 2
		< /= 4.0 oz / sq yd	30	30
		> 4.0 oz/ sq yd	35	35
		Laces, Mesh	15	15
		Functional Pocket- Seam Strength	15	15
		Non-Functional Pocket- Seam Strength	Data	Data

COLORFASTNESS

Colorfastness to Crocking ***For Burnout or Garment Dyed products, please make sure to test c/f crocking on BOTH the inside and outside of the garment***	AATCC 8/116 <u>Original State</u> 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 Chlorine AND Non-Chlorine Bleach	AATCC/ASTM TS-001	Shade Change: Grade 4 min		
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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>		
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ANALYTICAL

Formaldehyde	Kohl's TM-5	Negative, If Spot Test is Positive, proceed with step 2		
	JIS L 1041:2000 –	Children <u>over 4</u> & Adults = 75 ppm max. Children's 0-5T = 20 ppm max.		
	Sec. 5.3.1 (2) Method B, JIS Water Extraction Method			
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		
pH Value	AATCC 81	All Colorways: 5.0 - 8.0 (zero tolerance)		

ADDITIONAL COLORWAY TESTING

Flammability	16 CFR 1610	Class 1		
	16 CFR 1615/1616	Non-exempt fabrics must be tested in every color Pass (Acceptance Criteria) The supplier must keep all children's sleep wear test records and samples for a period of 7 years		
Formaldehyde	Kohl's TM-5	Negative, If Spot Test is Positive, proceed with step 2		
	JIS L 1041:2000 –	Children <u>over 5T</u> & Adults = 75 ppm max. Children's 0-5T = 20 ppm max.		
	Sec. 5.3.1 (2) Method B, JIS Water Extraction Method			

pH Value	AATCC 81	All Colorways: 5.0 - 8.0 (zero tolerance)								
Colorfastness to Chlorine AND Non-Chlorine Bleach	AATCC/ASTM TS-001	Shade Change: Grade 4 min								
Colorfastness to Crocking ***For Burnout or Garment Dyed products, please make sure to test c/f crocking on BOTH the inside and outside of the garment***	AATCC 8/116 <u>Original State</u> 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						
Appearance Retention	AATCC/ASTM TS-008 Modified Tide® Powder Detergent	Must meet all applicable Kohl's Appearance Evaluation Requirements								
			Tier 1	Tier 2						
		Knit Torque	5%	3%						
		Woven Torque	3%	2%						
REQUIRED WHERE APPLICABLE AT ADDITIONAL COST										
Stretch & Recovery /Tension & Elongation **For garments containing Spandex ** Loose fitting- Reach out to PI team	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: after 60 seconds Growth: after 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								
STAGE 2 TESTING										
Lead Content in Surface Coating – Scrapeable in each color *	CPSC-CH-E1003-09.1	Children of ALL Ages <u><90 ppm (0.009% total weight)</u> Adults <u><90 ppm max (0.009% total weight) from Spring 2014</u> Refer to Kohl's Product Safety Policy for additional requirement on Composite Testing								
Total Lead in Substrate Material * (Accessible components)	CPSC-CH-E1002-08.1/CPSC-CH-E1001-08.1	Children's of ALL ages - <u><100 ppm max (0.010% total weight)</u> 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 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.								
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-CH-C1001-09.4 (Mod)	Washington Children's Safe Products Act ≤ 90 ppm (lead) ≤ 40 ppm (Cadmium) ≤ 0.1% (DEHP, BBP, DBP, DINP, DIDP, DnHP, DnOP, DIBP, DnPP or 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><tr><td>Phthalates</td><td>Coating and 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 and Plasticized materials
Substances	Suggested materials									
Lead	Follow CPSC lead									
Cadmium	Follow CPSC lead									
Phthalates	Coating and Plasticized materials									
STAGE 3 TESTING										
LABEL VERIFICATION										

Label Review	Care Label 16 CFR 423	Fiber Content, Care, Country of Origin, Manufacturers Registration Number, Wool Products Registration Number must meet Federal Standards								
	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	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 & Product Integrity teams to discuss minimum required information (quality.assurance@kohls.com, product.integrity@kohls.com).**</i>	Kohl's Requirement	Refer to Kohl's Tracking Label Section in the Labeling Guideline Policy. TO BE MARKED AS PASS/FAIL: Kohl's Assigned Factory Number Manufacture Date (Month/Year) UPC #								
Kohl's Durability Evaluation *	Kohl's Durability Evaluation Tide® Powder Detergent	Fragile trims, heat transfer & screen prints - Must meet all applicable Kohl's Durability Evaluation Requirements								
pH Value	AATCC 81	All Colorways: 5.0 - 8.0 (zero tolerance)								
Attachment Strength* Applies to Small Parts/Belt Loops/Zipper Tab etc.	16 CFR 1500.51-53 Pt. F (Saf Q)	Sizes 0-5T: No detachment at 17 lbs. for 10 seconds (Must test in original state, after 1 wash, and after 5 washes) Sizes over 5T & Adult: 15 lbs. for 10 seconds (Fragile trims: beads, rhinestones etc.= 5 lbs. for 10 seconds minimum)								
Sharp Points & Sharp Edges	CPSC 16 CFR 1500.48 - 49	No sharp points or sharp edges – Refer to Product Safety Policy								
TOXICOLOGY TESTING – If not tested in stage 2										
Lead Content in Surface Coating – Scrapeable in each color *	CPSC-CH-E1003-09.1	Children of ALL Ages <u><90 ppm (0.009% total weight)</u> Adults <u><90 ppm max (0.009% total weight) from Spring 2014</u> Refer to Kohl's Product Safety Policy for additional requirement on Composite Testing								
Total Lead in Substrate Material * (Accessible components)	CPSC-CH-E1002-08.1/CPSC-CH-E1001-08.1	Children's of ALL ages - <u><100 ppm max (0.010% total weight)</u> Refer to Kohl's Product Safety Policy for additional requirement on Composite Testing								
Phthalates in each plasticized part/material such as PVC, Vinyl *	CPSC-CH-C1001.09.3	Applies to ALL Children's & Adult Products <u>< 1000 ppm max (0.1%) in each part of DEHP, BBP, DBP, DINP, DIDP, DnHP, DnOP, DIBP, DnPP, DCHP</u> Refer to Kohl's Product Safety Policy for additional requirement on Composite Testing								
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-CHC1001-09.3	Washington Children's Safe Products Act ≤ 90 ppm (lead) ≤ 40 ppm (Cadmium) ≤ 0.1% (DEHP, BBP, DBP, DINP, DIDP, DnHP, DnOP, DIBP, DnPP or 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><tr><td>Phthalates</td><td>Coating and 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 and Plasticized materials
Substances	Suggested materials									
Lead	Follow CPSC lead									
Cadmium	Follow CPSC lead									
Phthalates	Coating and Plasticized materials									

* Need to test all colorways

PRICING AND ADDITIONAL NOTE: *Please refer to Kohl's preferred third party labs for individual pricing and samples needed.

PROTOCOL VERSION	DESCRIPTION OF CHANGE	DATE REVISION / APPROVED BY
216-6	1. Updated Formaldehyde requirement for children 2. Updated c/f perspiration – removed self staining requirements 3. Updated – dimensional stability requirements 4. Updated Lead in Surface Coating – reduced requirement to 90ppm 5. Updated Soluble Heavy Metals – test method 6. Added – pH to Stage 1 full package and additional colorway 7. Incorporated Silver, Gold, Platinum standards	September 2013 /Vinoth
216-7	1) Removed pricing for testing/took out Intertek/added approved lab statement	October 6th 2014/Nov. 31 2014/Leah Gross-Hutchison
216-8	1) Added pocket seam strength requirements	March 2016/Jackie Deppisch
216-9	1) Added c/f crocking note for burnout and garment dyed products	May 2016/Jackie Deppisch
216-10	1) Lead, Cadmium and Phthalate in Washington Children's Safe Products Act	August 2016 - Becky Becker
216-11	1) Attachment Strength - Added "(Must test in original state, after 1 wash, and after 5 washes)" for sizes 0-5T. 2) Fragile Trims - updated size ranges to include 5T 3) Formaldehyde - updated size ranges to include 5T 4) Zipper Tab Twist - updated size ranges to include	February 2017 - Becky Becker
216-12	1) Updated crocking requirements to read: "Pigment Dyed/Printed, Lightly Brushed, Sand Washed, Piled, Sulphur, Denim, Indigo & Silk blends"	May/2017 Becky Becker
216-13	1) Updated requirement for pH (whites only) 2) Updated font format on document	August 2017/Charlene Swanson
216-14	1) Updated pH value to 5.0-8.0 (zero tolerance) 2) Updated Phthalates in each plasticized part/material such as PVC, Vinyl 3) Updated Dimensional Stability Requirements	October 2018 - Becky Becker
216-15	1) Updated Stage 3 Tracking Label to include Adult Tracking Label requirements	March 2019-Jackie Deppisch
216-16	1) Separated Adult tracking label and marked as DATA ONLY	March 2019-Jackie Deppisch
216-17	1) Updated S&R requirements	April 2019-Jackie Deppisch
216-18	1) Updated hand wash requirement to AATCC LP2 2) Updated Phthalates requirement to CPSC-CH-C1001-09.4 (Mod)	April 2019 - Becky Becker
216-19	1) Added tension & elongation testing	May 2019/Jackie Deppisch
216-20	1) Updated attachment strength requirements, separated out by adult and children's	Aug 2019 - Elizabeth Armstrong
216-21	1) Revised attachment strength requirements	Aug 2019 - Elizabeth Armstrong
216-22	1) Updated Adult Tracking Label as REQUIREMENT 2) Updated S&R/T&E to be one TM	March 2020- Jackie Deppisch
216-22	1) Removed "Ultra" from Tide detergent 2) Updated S&R requirements	March 2020 - Charlene Swanson
216-23	1) Removed tier 3 from protocol	Aug 2021 Elizabeth Armstrong
216-24	1) Added test line for all performance claims	March 2022 / Becky Becker
216-25	1) Added 501 Supplemental Protocol	November 2022/ Jackie Deppisch
216-26	1) Formatting update	February 2023/Kevin Makocy