



APPEARANCE EVALUATION PROCEDURES: SOFTLINES

*Evaluating Appearance of Fabrics & Garments After
Laundering*

Durable Performance Claim Requirements

Contents

• Kohl's Appearance Evaluation Requirements Procedures (KAR)-AATCC/ASTM TS-008 Modified.....	3
• KAR and Durability Testing Requirements Chart (Condensed).....	4
• Finding Torque/Skew:	
Instructions.....	7
• KAR- Fabrics.....	9
• KAR - Garments WITHOUT Embellishments.....	10
• KAR – Garments WITH Embellishments/Fragile Trim.....	11
• KAR Garments with “Durability” Performance Claim.....	12
• Kohl's Appearance Evaluation Requirements Worksheets –KAR/ With & Without Embellishments/ Durable Claim.....	13
• Kohl's Appearance Evaluation Procedures.....	16
• As per AATCC 135/AATCC 150/AATCC/ASTM TS-008.....	17
• Revision History.....	18

Kohl's Appearance Evaluation Requirements Procedures - AATCC/ASTM TS-008 Modified

Overview

Kohl's Appearance Evaluation Procedures (KAR) are performed to ensure that the after wash performance of fabrics, apparel or textile products meet Kohl's Customer's expectations. It will determine the performance of a fabric, apparel or textile product that has undergone repeated home laundering by comparing it to an unwashed specimen and rating it against a set of Kohl's requirements. The full list of requirements can be found in the chart titled "**KAR and Durability Testing Requirements**," which is included within this document.

Kohl's Appearance Evaluation can be broken down into 4 categories, to confirm that every possible characteristic is taken into account when evaluating different types of samples.

These 4 KAR Categories Are:

- 1) Fabrics (3 launderings)
- 2) Garments without Embellishments (3 launderings/ Sweaters: 5 Launderings)
- 3) Garments with Embellishments (1,5 & 10 launderings)
- 4) Garments with Durability Claim (5,10,15,20 launderings)

Testing Requirements for these evaluations are listed in the chart titled "**KAR and Durability Testing Requirements (Condensed)**"

****All observations are to be made by comparing the washed and unwashed product and using the performance standard indicated below***

Please contact Kohl's Quality Assurance team at Quality.Assurance@kohls.com with any questions or if you are unsure what is applicable to your product.

KAR and Durability Testing Requirements Chart (Condensed)

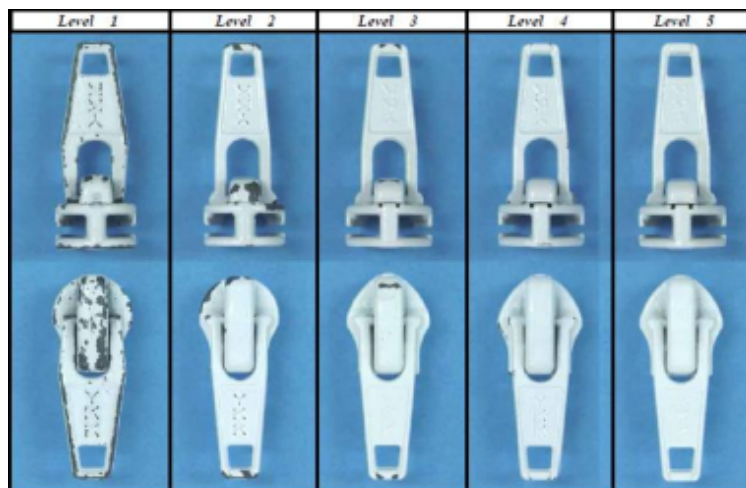
Observation	Definition	Standard Requirements		Specialty Requirements	
		Fabrics	Garments Without Embellishment or Fragile Trims	Garments With Embellishments or Fragile Trims (i.e. sequins, rhinestones, beads, sugar glitter, paint splatter, foil prints, flock applications, screen prints or similar applications)	Garments with Durability Claim
		3 Washes Sweaters Only - 5 Washes		1, 5, and 10 Washes	5, 10, 15, and 20 Washes
Color Bleeding/Self Staining	Visual observation of color transfer to another color or portion of the product using the Gray Scale for Evaluating Staining.	Gray Scale Rating: 4.5 or better		Gray Scale Rating: 4.5 or better (all)	
Excessive Color Change	Visual observation comparing the washed product to the unwashed product using the Gray Scale for Evaluating Change in Color.	Gray Scale Rating: 4.0 or better Prints, Pigment Dyed, Sulphur Dyed, Indigo: Gray Scale Rating: 3.5 or better		Gray Scale Rating: 4.0 or better Prints, Pigment Dyed, Sulphur Dyed, Indigo: Gray Scale Rating: 3.5 or better *Durability Claim: 4.5 or better	
Color Staining (Multifiber test fabric)	Visual observation of color staining to another fiber using the Gray Scale for Evaluating Staining. Evaluate after 3 washes.	Gray Scale Rating: 3.0 or better		n/a	Gray Scale Rating: 3.0 or better
Excessive Wrinkling	Kohl's Overall Smoothness Appearance Standard – AATCC 3D Smoothness Appearance Replicas is compared to the product to verify that Kohl's requirement has been met.	Observation results are Pass, Fail, or N/A with rating. Smoothness Appearance = 3.5 Below requirement does not apply to Durable Press/Wrinkle Resistant Garments: Evaluate fabric as is after wash, if excessive wrinkling – iron fabric as needed per care instruction and evaluate.		n/a	Observation results are Pass, Fail, or N/A with rating. Smoothness Appearance = 3.5 Below requirement does not apply to Durable Press/Wrinkle Resistant Garments: Evaluate fabric as is after wash, if excessive wrinkling – iron fabric as needed per care instruction and evaluate.
Excessive Pilling	Visual observation comparing the washed product to the unwashed product using the ASTM D 3512 Photographic Standards for evaluating pilling..	Photographic Rating: 4 (Slight pilling or fuzzing) or better Back: Pilling failures to be recorded as data (apparel only)		n/a	Photographic Rating: 4 (Slight pilling or fuzzing) or better Back: Pilling failures to be recorded as data (apparel only)
Torque/Skew * See diagram for determining	The side seam and AATCC 179-2004 Inverted T methods are used to verify that Kohl's requirements have been met. Observation results are indicated in %.	Wovens: Tier 1 & 2: 3%; Tier 3: 2% Knits: Tier 1: 5%; Tier 2: 4%; Tier 3: 3% Garment Indigo Dyed Wovens & Woven		n/a	Wovens: Tier 1 & 2: 3%; Tier 3: 2% Knits: Tier 1: 5%; Tier 2: 4%; Tier 3: 3% Garment Indigo Dyed Wovens & Woven

<i>torque/skew</i>	(one decimal place, ex. 3.4% 2.4%)	Swimwear: 4% max. Sweaters: 5% max.		Swimwear: 4% max. Sweaters: 5% max.
Holes or other signs of excessive abrasion	Visual observation for any evidence of holes or other signs of excessive abrasion after wash.	Observation results are Pass, Fail, or N/A.	n/a	Observation results are Pass, Fail, or N/A.
Handfeel	Physical evaluation to determine if the handfeel is <i>the same</i> as the before wash sample.	Observation results are Pass, Fail, or N/A.	n/a	Observation results are Pass, Fail, or N/A.
Filled Products	Visual observation for any evidence of fiber fill migration, voids in the fiber fill, or fiber fill penetrating through the surface.	Observation results are Pass, Fail, or N/A.	n/a	Observation results are Pass, Fail, or N/A.
ADDITIONAL REQUIREMENTS: Embellishments OR Durability Claim				
Needle Cuts or Chews	Visual observation for any evidence of needle cuts or chews after wash.	n/a	n/a	Observation results are Pass, Fail, or N/A.
Raveled Edges	Visual observation for any evidence of raveled edges after wash.	n/a	n/a	Observation results are Pass, Fail, or N/A.
Seam Pucker	Kohl's Seam Smoothness Standard – AATCC Photographic Seam Smoothness Replicas is compared to the product to verify that Kohl's requirement has been met. This includes seam puckering on all split fronts, such as snap fronts, zipper fronts and button front products.	n/a	n/a	Observation results are Pass, Fail, or N/A with a rating. Seam Smoothness = 3.0 Evaluate garment as is after wash, if excessive wrinkling – iron garment as needed per care instruction and evaluate.
Zippers or other trim items functioning properly	Physical inspection to determine whether or not all trim items are functioning properly.	n/a	n/a	Observation results are Pass, Fail, or N/A.
Coating of Metal Trims	Visual observation for any loss of color or coating in metal trims using photographic Reference image Fig. 1	n/a	n/a	Observation results are Pass, Fail or N/A with a rating Class: 3
Appliqués, buttons or trim items securely attached	Visual observation that all appliqués, buttons and trim items are securely attached after wash.	n/a	Observation results are Pass, Fail, or N/A.	
Peeling, Flaking, Cracking, or other evidence of delamination	Visual observation that no peeling, flaking, cracking or other evidence of delamination occurs in a screen print after wash.	n/a	Observation results are Pass, Fail, or N/A.	

Legibility of text	Visual observation that the text of a screen print is legible after wash.	n/a	Observation results are Pass, Fail, or N/A.
Detachment	Visual observation that no detachments of the decorative/embellished trims occurs during the wash.	n/a	Observation results are Pass, Fail, or N/A.
Multiple broken stitches	Visual observation that no broken stitches are present in the decorative/embellished trims after wash.	n/a	Observation results are Pass, Fail, or N/A.
Color loss of trim or label	Visual observation comparing the color change of the washed item to the unwashed washed product and reporting whether there was any color loss.	n/a	Observation results are Pass, Fail, or N/A.
Change in sheen or gloss to the extent that a metallic finish no longer appears shiny	Visual observation that no change in the sheen or gloss of the metallic finish has occur after wash.	n/a	Observation results are Pass, Fail, or N/A.
Loss of surface texture	Physical observations to determine that the texture/handfeel of the washed item is the same as the original item.	n/a	Observation results are Pass, Fail, or N/A.
Softening or melting	Visual observation that no softening or melting of the screen prints or decorative/embellished items has occurred after wash.	n/a	Observation results are Pass, Fail, or N/A.

***Figure 1 Coating of Metal Trims**

Image provided by YKK Corporation

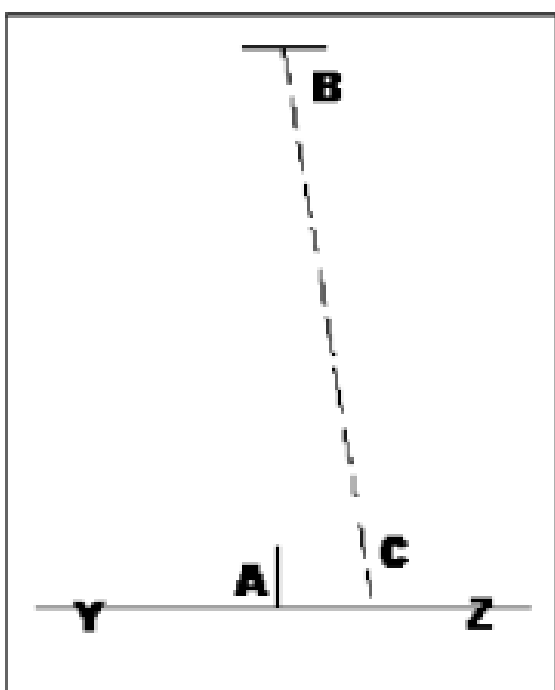


Finding Fabric Torque/Skew

Procedure for using the AATCC test method 179-2023/Inverted T Method 2 (Fabric Marking), Calculation Option 3

1. Using a marker pen, draw a reference line YZ across the width of the specimen approximately 3 inches, above the bottom edge. Draw benchmark A perpendicular to and in the middle of YZ. Draw benchmark B, both perpendicular to YZ and parallel to A.
2. After washing and drying, lay the specimen flat and allow it to condition for a minimum of 4 hours. The specimen should be gently smoothed and free of large wrinkles or creases. Begin smoothing at the top and work down.
3. Draw a line from B to line YZ, following the grainline. Mark this intersection as C.
4. Measure the distance from A to C. Measure the distance from A to B.
5. Calculate the percentage of skewing after wash as follows:

$$(\text{Line AC} / \text{LINE AB}) \times 100$$



Finding Garment Torque/Skew

Procedure for using the Side Seam method (AATCC/ASTM TS-004)

1. After washing and drying, align the shoulder of a top or waist of a bottom. Lay flat and allow to condition for a minimum of 4 hours. The product should be gently smoothed and free of large wrinkles or creases. Begin smoothing at the top of the garment and work down.
2. Using a marker pen, one skewing mark should be placed at the uppermost point of the product folded edge - point E and the other skewing mark should be placed at the lower most point of the same folded edge - point G.
3. Measure the distance from point F across to the nearest fold edge - point G.

4. Calculate the percentage of torque after wash as follows: Line FG

Line EG x 100



Skew

Procedure for using the AATCC test method 179-2023/Inverted T Method 2, Option 3

1. Using a marker pen, draw a reference line YZ across the width of the panel approximately 3 inches, above the bottom edge and hem. Draw benchmark A perpendicular to and in the middle of YZ. Draw benchmark B, both perpendicular to YZ and parallel to A.
2. After washing and drying, align the shoulder of a top or waist of a bottom. Lay flat and allow to condition for a minimum of 4 hours. The product should be gently smoothed and free of large wrinkles or creases. Begin smoothing at the top of the garment and work down.
3. Draw a line from B to line YZ, following the grainline. Mark this intersection as C.
4. Measure the distance from A to C. Measure the distance from A to B.
5. Calculate the percentage of skewing after wash as follows: Line AC

Line AB x 100

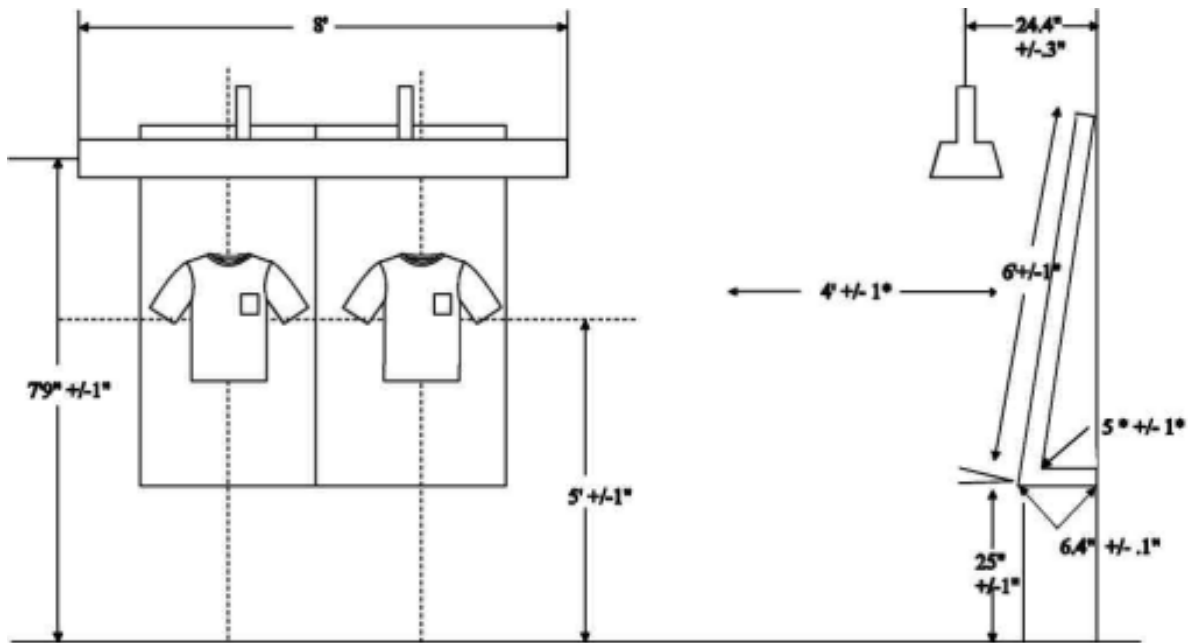
****NOTE: For bottoms measure inseam twist on pants****

Exception

Skew is not measured on garments that have a horizontal engineered stripe or wide horizontal stripes that are over 3" in width. Horizontal stripes are the predominant element of the garment and the fabric must be cut and sewn with the stripe straight on the horizontal.

Viewing Board

Observer - stand directly in front of the specimen 4-ft (+/- 1") away from the board. It has been found that normal variations in the height of the observer above and below the arbitrary 5-ft eye level have no significant effect on the grade given.



Front View Side View

Supplies Required

- **Lighting** – 4 4-ft Sylvania bulbs CW (cool white) UL3500K 128 WATTS.
- **Board** – 6-ft X 6-ft (+/-1") piece of 1/4" plywood for the front of the board and a 6-ft X 6.4" (+/-0.1") piece of 1/4" plywood to mount the board so that the bottom is a 5 +/- 0.1 degree angle (see diagram).
- **Paint** – After mounting, paint the 6-ft X 6-ft plywood board to match No. 2 gray chip in the AATCC gray Scale for Staining.

1) Fabric Appearance Evaluation

KAR- 3 Launderings

Overview

Three (3) specimens in each colorway are to be washed & dried 3 times, according to the Kohl's Care Label Policy, following the care instructions provided. The after wash appearance of the (3) specimens is then compared to the unwashed specimen.

For fabrics with care instruction of *Dry Clean Only*: Evaluate unwashed sample against sample that has undergone three (3) dry clean cycles.

**See Kohl's Care Label Policy for a list of dry clean only fabrications.*

Sample Preparation

- Prepare 4 fabric specimens, each 26" Length x 15" Width
- Cut specimens parallel to fabric length and width, marking fabric length on each specimen. Specimens must contain different yarns in both the length and width, ie. Staggered on the piece goods.

*Selvage edges should NOT be included in fabric specimens. Raw edges should be pinked or stitched, as appropriate, to reduce raveling.

Procedure for Fabrics

- Compare the fabric specimens to each other, to confirm they are identical.
- 1 specimen is selected as the control, which remains unwashed and is used for evaluation.
 - Launder 3 of the 4 specimens, according to Kohl's Care Label Policy
 - Repeat the wash and dry process 3 times, according to the care label instructions.
 - Follow Dry Clean process if care label states to "Dry Clean Only"
- For care instructions that include "*Machine wash with mild detergent*", use Woolite detergent.
- Multiple specimen groupings may be included in a wash or dry cycle as long as the color family is complimentary and there are no "wash separately" instructions included in the care label instructions.

Appearance Requirements for Fabrics

Refer to the KAR and Durability Testing Requirements Chart (Condensed) for appearance requirements.

Compare the washed and unwashed product. Where appropriate, the performance requirement should be given. The performance rating is observed using a standard, such as the Gray Scale or a visual observation, and must be entered on the applicable **Kohl's Worksheet** on the line in front of each appearance requirement.

2) KAR- Garments WITHOUT Embellishments/Fragile Trims

3 Launderings / Sweaters: 5 Launderings

Overview

For garments without any decorative trims/embellishments, two apparel or textile products are submitted, in the colorway indicated by the appropriate protocol. One dark colorway in each product is to be washed & dried 3 times, according to the care label instructions submitted. The after wash appearance of that product is then compared to the unwashed product.

Exception: Any apparel or textile product that is not machine washable will use the lab test results to evaluate the appearance requirements, such as leather or suede. Reference the approved care instructions for the product.

Procedure for Garments without Embellishments

- Two apparel or textile products are submitted, in the colorway indicated by the appropriate protocol.
- Compare the apparel or textile products to each other, to confirm they are identical. Launder 1 of the apparel or textile products according to the care label instructions. For care instructions that include machine wash with "*mild detergent*", please proceed with using Woolite detergent.
- Multiple specimen groupings may be included in a wash or dry cycle as long as the color family is complimentary and there are no "wash separately" instructions included in the care label instructions.
- Repeat the above wash and dry cycle 3 times (5 times for Sweaters), according to the care label instructions.

Appearance Requirements for Garments without Embellishments/Fragile Trims

Refer to the KAR and Durability Testing Requirements Chart (Condensed) for appearance requirements.

Compared the washed and unwashed product. Where appropriate, the performance requirement should be given.

The performance rating is observed using a standard, such as the Gray Scale or a visual observation, and must be entered on the applicable **Kohl's Worksheet** on the line in front of each appearance requirement.

3) KAR- Garment WITH Embellishments/ Fragile Trims

1,5 & 10 Launderings

Overview

Garments with embellishments will undergo testing of Appearance after Three Home Launderings, as well as repeated home launderings to ensure that the samples retain their original appearance & embellishments/fragile trims remain intact.

****This does not apply to embroidered appliqués.**

For garments that have embellishments/fragile trims (i.e. sequins, rhinestones, diamantes, beads, sugar glitter, paint splatter, foil prints, flock applications, screen prints or similar applications): Three (3) apparel or textile products must be submitted. One sample will be retained as a control. The second sample will be tested for Appearance After Three (3) Launderings. The remaining garment will be subjected to repeated home launderings per the item's intended care instructions, following the Specialty Requirements section outlined in the chart titled "KAR and Durability Testing Requirements"(Condensed) . This section of the chart can be applied for either fabric or garments, depending on the application.

Note: The evaluation will only apply to the embellished trim item.

Garments with embellishments or fragile trims will undergo the following two procedures:

Procedure 1

- Two apparel or textile products are submitted, in the colorway indicated by the appropriate protocol.
- Compare the apparel or textile products to each other, to confirm they are identical. Launder 1 of the apparel or textile products according to the care label instructions. For care instructions that include machine wash with "mild detergent", please proceed with using Woolite detergent.
- Repeat the above wash and dry cycle per the specified number of cycles below, according to the care label instructions.
- **Report the results by using the Kohl's KAR Extended Appearance Evaluation requirements. This reporting will be for the appearance of the decorative trims/embellishments only.**

Procedure 2

<p>Garments in sizes up to and including 4T:</p> <p>which contain foil prints, screen prints or flock applications approved by Kohl's for use on children's garments in this size range.</p> <p>Machine Laundering = 10 cycles</p>	<p>Machine Laundering: Perform 1 wash/dry cycle. Evaluate when dry. If satisfactory, repeat rotation and evaluate after the 5th & 10th cycles. The completed procedure will consist of 10 wash/dry cycles and 3 evaluations, unless failure occurs prematurely. The procedure should be stopped when failure occurs.</p>
<p>Garments in sizes greater than 4T & Adults:</p> <p>containing sequins, rhinestones, diamantes, beads, sugar glitter, paint splatter, foil prints, screen prints, or flock applications.</p> <p>Machine Laundering = 10 cycles Hand Laundering = 10 cycles Dry Cleaning = 3 cycles</p>	<p>Machine or Hand Laundering: Perform 1 wash/dry cycle. Evaluate when dry. If satisfactory, repeat wash/dry for 4 additional cycles. Evaluate after the 5th cycle. Proceed with 5 additional wash/cycles for a total of 10 and then evaluate after the 10th cycle. The completed procedure will consist of 10 wash/dry cycles and 3 evaluations, unless failure occurs prematurely. The procedure should be stopped when failure occurs.</p> <p>Dry Cleaning: Perform 3 dry clean cycles and evaluate.</p>

▪ **Assess only the change in the appearance of the embellished trim (not the garment or fabric) against the control (original) sample. Report the changes using the applicable appearance requirements in the KAR and Durability Testing Requirements Chart (Condensed).**

This reporting will be for the trims only.

The appearance requirements are to be compared between the washed and unwashed product. Where appropriate, the performance requirement has been given. The performance rating observed using a standard, such as the Gray Scale or a visual observation, must be entered on the **Kohl's KAR worksheet** on the line in front of each appearance requirement. All observations are to be made by comparing the washed and unwashed product and using the performance standard indicated.

4) "Durable" Performance Claim Testing Requirements 5,10,15 & 20 Launderings

Durability performance claims must be verified by third party lab testing. The below requirements, which can be found in the 401 Softlines Performance Claims Protocol, are also available on KLINK, if your product has a Durability claim.

Reference 401 Protocol:

Durability For "Durable" Claims	Appearance Retention (KAR) AATCC/ASTM TS 008 Modified Tide Powder Detergent Original & After 5, 10, 15, 20 Washes	Must meet all Applicable Kohl's Appearance Evaluation Requirements	Fabric & Garment Stage
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Kohl's Appearance Evaluation Requirements Worksheet

AATCC/ASTM TS-008 Modified

For fabrics or garments without embellishments or trims

Date Tested _____ Color _____

Style Number _____ Signature _____

APPEARANCE/KAR: PLEASE CHECK BOX FOR NUMBER OF WASHES

☐ 3X

☐ 5X Sweaters

Appearance Observation Results Are To Be Recorded As **Satisfactory (Pass)** or **Unsatisfactory (Fail)**, except where the gray scale/photographic standards are used and torque/skew %'s, which are indicated to one decimal point (ex. 3.4% 2.4%).

Grade: _____ **Excessive Wrinkling** (min. 3.5)

Grade: _____ **Excessive Pilling** (min. 4.0)

Grade: _____ **Excessive Color Change** (with suppressor if below 4.0)

Grade: _____ **Excessive Color Change** (Gray Scale 4.0 or better without suppressor)

Grade: _____ **Color Bleeding/Self Staining** (Gray scale 4.5 or better)

Grade: _____ **Color Staining on Acetate** (min 3.0)

Grade: _____ **Color Staining on Cotton** (min 3.0)

Grade: _____ **Color Staining on Nylon** (min 3.0)

Grade: _____ **Color Staining on Polyester** (min 3.0)

Grade: _____ **Color Staining on Acrylic** (min 3.0)

Grade: _____ **Color Staining on Wool** (min 3.0)

Torque/Skew _____ (Indicate both results as %'s)

Rating: _____ **Handfeel: Same as before Wash** (Req PASS rating)

Overall Rating of Appearance: _____ (Satisfactory (PASS) or
Unsatisfactory (FAIL))

Additional Comments:

Kohl's KAR Extended Appearance Evaluation Worksheet

For garments with embellishments or trims

Date Tested _____ Color _____

Style Number _____ Signature _____

KAR EVALUATION OF GARMENTS WITH EMBELLISHMENTS OR TRIMS (PLEASE CHECK BOXES FOR NUMBER OF WASHES)

☐ 1X ☐ 5X ☐ 10X

Specify the trim that is being evaluated: _____

P ☐, F ☐, N/A ☐ Peeling, Flaking, Cracking or other Evidence of Delamination

P ☐, F ☐, N/A ☐ Legibility of Text

P ☐, F ☐, N/A ☐ Detachment

P ☐, F ☐, N/A ☐ Multiple Broken Stitches

P ☐, F ☐, N/A ☐ Color Loss of Trim or Label

P ☐, F ☐, N/A ☐ Change in sheen or gloss to extend that a metallic finish no longer appears shiny

P ☐, F ☐, N/A ☐ Loss of Surface Texture

P ☐, F ☐, N/A ☐ Softening or Melting

Grade: _____ Color Bleeding/Self Staining Grade (Grey Scale 4.5 or better)

Grade: _____ Excessive Color Change (Grey Scale 4.0 or better)

Overall Rating of Durability Evaluation: _____ Satisfactory (Pass) or Unsatisfactory (Fail)

Additional Comments: _____

NEW:

Kohl's Durability Performance Claim Evaluation Worksheet

For garments with durability performance claims

Date Tested _____ Color _____

Style Number _____ Signature _____

EVALUATION OF GARMENTS WITH DURABILITY PERFORMANCE CLAIM (PLEASE CHECK BOXES FOR NUMBER OF WASHES)

☐ 5X ☐ 10X ☐ 15X ☐ 20X

Appearance — Observation Results Are To Be Recorded As **Satisfactory (Pass)** or **Unsatisfactory (Fail)**, except where the gray scale/photographic standards are used and torque/skew %'s, which are indicated to one decimal point (ex. 3.4% 2.4%).

P ☐ F ☐ N/A ☐ Appliques, buttons or trim items securely attached

P ☐ F ☐ N/A ☐ Needle cuts or chews
(FAIL)

Overall Rating of Appearance: _____ (Satisfactory (PASS) or Unsatisfactory

P ☐ F ☐ N/A ☐ Raveled Edges

Additional Comments: _____

P ☐ F ☐ N/A ☐ Seam Pucker

P ☐ F ☐ N/A ☐ Holes or Other Signs of Excessive Abrasion

P ☐ F ☐ N/A ☐ Zippers or Other Trim Items Functioning Properly

_____ **Torque/Skew** (Indicate both results as %'s)

Rating: _____ **Metal Coating** (Req PASS rating)

Rating: _____ **Handfeel: Same as before Wash** (Req PASS rating)

Grade: _____ **Excessive Wrinkling** (min. 3.5)

Grade: _____ **Excessive Pilling** (min. 4.0)

Grade: _____ **Excessive Color Change** (with suppressor if below 4.5)

Grade: _____ **Excessive Color Change** (Gray Scale 4.5 or better without suppressor)

Grade: _____ **Color Bleeding/Self Staining** (Gray scale 4.5 or better)

Grade: _____ **Color Staining on Acetate** (min 3.0)

Grade: _____ **Color Staining on Cotton** (min 3.0)

Grade: _____ **Color Staining on Nylon** (min 3.0)

Grade: _____ **Color Staining on Polyester** (min 3.0)

Grade: _____ **Color Staining on Acrylic** (min 3.0)

Grade: _____ **Color Staining on Wool** (min 3.0)

Kohl's Appearance Evaluation Procedures

Turnaround Time

For fabrics & garments without decorative/embellished trim items:

The above testing can be completed in 4 laboratory working days. Turn time is calculated from the day after the third party lab receives the sample to the day the report is issued to the client.

For garments with decorative/embellished trim items:

The above testing can be completed in 6 laboratory working days. Turn time is calculated from the day after the third party lab receives the sample to the day the report is issued to the client.

Pricing

Please refer to Kohl's approved third party labs for individual pricing.

Amount of Samples Needed

Please reach out to the 3rd party lab for the number of samples required for testing for the three different categories.

Fabrics to be evaluated should be 26" L x 15" W.

Dry cleaning Note: If the care instructions state "For best results, Dryclean", then an additional apparel or textile product will need to be submitted along with the above amounts.

Required Materials to Complete Testing

1. American Washer and Dryer – It is recommended that AATCC approved brand names, such as Whirlpool or Kenmore is used. A current list of recommended model numbers can be found on AATCC's web site: <https://www.aatcc.org/test/washers/>
2. Gray Scale. <https://www.aatcc.org/>(Products/QC Products/Colorfastness Testing)
3. Kohl's Pilling Standard. Standard included with this procedure.
4. Kohl's Overall Smoothness Appearance Standard. Standard included with this procedure.
5. Kohl's Seam Smoothness Standard. Standard included with this procedure.
6. Viewing Board – see supplies required below.
7. Household detergent – American label: Tide® Powder – Original Scent.

As per AATCC 135 / AATCC 150 / AATCC/ASTM TS-008

Wash Conditions:

Wash Temperature

- Cold: 80 +/-5°F
- Warm: 105 +/-5°F
- Hot: 120 +/-5°F

Wash Cycle

- Normal Cycle – 16 minute wash, 5 minute final spin
- Permanent Press Cycle – 12 minute wash, 5 minute final spin
- Delicate Cycle – 8.5 minute wash, 5 minute final spin

Dry Conditions:

When the care instructions call for 'tumble dry low', the temperature should be 140°F, +/- 5°.

- Tumble Dry Low – set heat temperature to Low
- Time setting – The below times are approximate. Allow the dryer to operate until the total load is dry. ▪
 - Knits - approx. 45 minutes
 - Wovens – approx. 25 minutes
 - Sweaters – approx. 35 minutes
 - Denim – approx. 35 minutes
- After the product/specimens have completed the wash and dry requirements, lay flat and allow to condition for a minimum of 4 hours before evaluation. **For fabrics/garments** follow all care label instructions, including any ironing. If no ironing instructions are included, no ironing should be done. Kohl's preferred care instructions 'when needed' means whenever the average consumer would find it necessary to iron in order to be satisfied with the overall appearance or specifically if the garment is a woven fabric. Hand iron weight is not to exceed 3 pounds.
- Hang both products on the viewing board. For fabrics, ensure that all specimens are evaluated hanging in the same lengthwise direction, utilizing the lengthwise guideline that was drawn on every specimen. Standing 4 feet from the board, compare the after wash product appearance to the unwashed product, using the appearance performance requirements. Both front and back appearance is to be compared for garments.

The overall rating of satisfactory or unsatisfactory is based upon all appearance requirement observations.

Revision History

1. June 2019
 - a. Added Skew information for pants
 - b. Removed costing
 - c. Added Table of Contents
 - d. Reformatted document
2. November 2019
 - a. Removed “Ultra” from Tide detergent
3. October 2020
 - a. Back: Pilling failures to be recorded as data (apparel only)
4. July 2022
 - a. Updated Kohl’s Appearance Extended (Durability) Evaluation Procedure – Garments with Embellishments/Fragile Trims - Procedure 2 to 10 washes
5. Sept 2022
 - a. Revised the durability evaluation procedure to make sure number of evaluations and cycles was clear
6. June 2025
 - a. Updated overall document to provide more clear guidelines on the 4 types of KAR Evaluations
 - b. Updated Durable Performance Claim (401 protocol) requirements
 - c. Condensed testing requirements into 1 chart for KAR fabrics, KAR Garments with and without embellishments or trims, and Durability Performance Claim- all housed in one chart for easy reference, titled “ KAR and Durability Testing Requirements Chart (Condensed)”
 - d. Added Worksheet for Durability Performance Claim at end of document