## APPAREL PERFORMANCE SPECIFICATIONS

<table>
<thead>
<tr>
<th>NPS</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPS - 3</td>
<td>Knit Apparel</td>
<td>Fine Gauge - Natural Fibers</td>
</tr>
<tr>
<td>NPS - 4</td>
<td>Knit Apparel</td>
<td>Fine Gauge - Wool, Silk</td>
</tr>
<tr>
<td>NPS - 5</td>
<td>Knit Apparel</td>
<td>Fine Gauge - Man-made Fibers</td>
</tr>
<tr>
<td>NPS - 6</td>
<td>Knit Apparel</td>
<td>Sweaters - Man-made Fibers</td>
</tr>
<tr>
<td>NPS - 7</td>
<td>Knit Apparel</td>
<td>Sweaters - Natural Fibers</td>
</tr>
<tr>
<td>NPS - 8</td>
<td>Knit Apparel</td>
<td>Swimwear</td>
</tr>
<tr>
<td>NPS - 13</td>
<td>Woven Apparel</td>
<td>Indigo, Sulfur Dyed, Denim and Chambray</td>
</tr>
<tr>
<td>NPS - 14</td>
<td>Woven Apparel</td>
<td>Silk</td>
</tr>
<tr>
<td>NPS - 15</td>
<td>Woven Apparel</td>
<td>Stretch Woven</td>
</tr>
<tr>
<td>NPS - 16</td>
<td>Woven Apparel</td>
<td>Wool and Specialty Fibers</td>
</tr>
<tr>
<td>NPS - 17</td>
<td>Woven Apparel</td>
<td>Terry Cloth/Velour</td>
</tr>
<tr>
<td>NPS - 18</td>
<td>Woven Apparel</td>
<td>Water Repellent Woven’s, PVC, PU, Synthetic leather</td>
</tr>
<tr>
<td>NPS - 19</td>
<td>Woven Apparel</td>
<td>Man-made Fibers</td>
</tr>
<tr>
<td>NPS - 20</td>
<td>Woven Apparel</td>
<td>Natural Fibers</td>
</tr>
<tr>
<td>NPS - 21</td>
<td>Woven Apparel</td>
<td>Swimwear</td>
</tr>
<tr>
<td>NPS - 22</td>
<td>Woven Apparel</td>
<td>Synthetic Lining Fabrics</td>
</tr>
<tr>
<td>NPS - 24</td>
<td>Leather and Suede</td>
<td>Leather and Suede</td>
</tr>
<tr>
<td>NPS - 25</td>
<td>Trims &amp; Findings</td>
<td>For all adult apparel</td>
</tr>
</tbody>
</table>
NORDSTROM PERFORMANCE SPECIFICATIONS (NPS)

Performance specifications are established by Fabrication and Fiber Content.

The following chart gives some examples of the (NPS) for some common fabrications.

### EXAMPLES

<table>
<thead>
<tr>
<th>Fabric/Garment</th>
<th>Fiber Content</th>
<th>NPS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Knits</td>
<td>100% Cotton / CVC Blends</td>
<td>NPS - 3</td>
</tr>
<tr>
<td>General Knits</td>
<td>Man-made Fibers</td>
<td>NPS - 5</td>
</tr>
<tr>
<td>French Terry</td>
<td>100% Cotton / CVC Blends</td>
<td>NPS - 3 - Special*</td>
</tr>
<tr>
<td>Waffle/Rib/Ottoman</td>
<td>100% Cotton / CVC Blends</td>
<td>NPS - 3</td>
</tr>
<tr>
<td>Waffle/Rib/Ottoman</td>
<td>Man-made Fibers</td>
<td>NPS - 5</td>
</tr>
<tr>
<td>Velour</td>
<td>100% Cotton / CVC Blends</td>
<td>NPS - 3 - Special*</td>
</tr>
<tr>
<td>Velour</td>
<td>Man-made Fibers</td>
<td>NPS - 5 - Special*</td>
</tr>
<tr>
<td>Synthetic Fur</td>
<td>Man-made Fibers</td>
<td>NPS - 5 - Special*</td>
</tr>
<tr>
<td>Sweater &lt;=18GG</td>
<td>100% Cotton / CVC Blends</td>
<td>NPS - 3</td>
</tr>
<tr>
<td>Sweater &lt;=18GG</td>
<td>Silk or Wool</td>
<td>NPS - 4</td>
</tr>
<tr>
<td>Sweater &gt; 18GG</td>
<td>100% Cotton / CVC Blends</td>
<td>NPS - 7</td>
</tr>
<tr>
<td>Sweater &gt; 18GG</td>
<td>Man-made Fibers</td>
<td>NPS - 6</td>
</tr>
<tr>
<td>Sweater &gt; 18GG</td>
<td>Silk or Wool</td>
<td>NPS - 7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fabric/Garment</th>
<th>Fiber Content</th>
<th>NPS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Denim</td>
<td>100% Cotton / CVC Blends</td>
<td>NPS - 13</td>
</tr>
<tr>
<td>Flannel</td>
<td>100% Cotton</td>
<td>NPS - 20 - Special</td>
</tr>
<tr>
<td>Chambray</td>
<td>100% Cotton</td>
<td>NPS - 13</td>
</tr>
<tr>
<td>Corduroy</td>
<td>100% Cotton, Cotton/Poly</td>
<td>NPS - 20 - Special</td>
</tr>
<tr>
<td>Velvet/Velveteen</td>
<td>100% Cotton</td>
<td>NPS - 20 - Special</td>
</tr>
<tr>
<td>Velvet/Velveteen</td>
<td>Silk</td>
<td>NPS - 14 - Special</td>
</tr>
<tr>
<td>PU Coated Jacket</td>
<td>100% Polyester Microfiber</td>
<td>NPS - 18</td>
</tr>
<tr>
<td>Wrinkle-Free Pants</td>
<td>100% Cotton, Cotton/Poly</td>
<td>NPS - 20</td>
</tr>
<tr>
<td>Sanded Silk Blouse</td>
<td>100% Silk, CV Silk Blends</td>
<td>NPS - 14 - Special</td>
</tr>
<tr>
<td>Seersucker Shirt</td>
<td>100% Cotton, Cotton/Poly</td>
<td>NPS - 20</td>
</tr>
<tr>
<td>Velour Robe</td>
<td>100% Cotton</td>
<td>NPS - 17 - Special</td>
</tr>
<tr>
<td>Stretch Twill Pant</td>
<td>70% Wool/25% Nylon/5% Spandex</td>
<td>NPS - 15</td>
</tr>
<tr>
<td>Cashmere Suit</td>
<td>Wool/Cashmere Blend</td>
<td>NPS - 16</td>
</tr>
<tr>
<td>Tri-Poly Dress</td>
<td>70% Triacetate/30% Polyester</td>
<td>NPS - 19</td>
</tr>
<tr>
<td>Children’s Flannel Pajamas</td>
<td>100% Cotton</td>
<td>NPS-1, NPS-12 - Special</td>
</tr>
</tbody>
</table>

**Special** - a different level of colorfastness is allowed for the following constructions, dyes or finishes:

*Chenille yarn, Boucle yarns, Brushed, Napped, Over-dyed, Peached, Pigment, Sanded, Sueded and Top dyed fabrics.*

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## KNIT APPAREL
### FINE GAUGE – NATURAL FIBERS

**NPS-3**

*Fiber Content: 100% Cotton, CVC Blends, Linen, Ramie,
End Use: Tops, Shirts, Pants, Shorts, Dresses, Skirts, Activewear, Bras, panties*

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability - all Fabrics</td>
<td>16 CFR Part 1610</td>
<td>Class 1</td>
</tr>
</tbody>
</table>
|                                           | CAN/CGSB 4.2 No 27.5 | ---Plain Surface: 3.5 seconds or more  
                                         |                                          | ---Raised-Fiber Surface: 4 seconds or more  
                                         |                                          | & exhibit ignition or fusion of its base fibers. |
| Fabric Weight                             | ASTM D3776  | As specified ± 5%                                                                          |
| Thread Count (courses/wales)              | ASTM D3887-Section 12 | As specified ± 5%                                                                 |
| Yarn Count (yarn size & ply)              | ASTM D1059, D1244 | As specified ± 1 yarn size                                                                 |
| Fiber Content                             | AATCC 20/20A | Single Fiber: No tolerance  
                                           |                                          | Blended Fiber: ± 3%                                                                     |
| Appearance after Laundering/ Dry Cleaning | Visual Inspection | After 3 launderings or 1 dry cleaning (follow care label)  
                                           |                                          | Satisfactory                                                                           |
| Dimensional Stability                     | Follow Care Label AATCC 135/150 | General Knits: ± 5%  
                                           |                                          | Fleece/French Terry: ± 6%  
                                           |                                          | Waffle/Ottoman: ± 8%  
                                           |                                          | Rib: ± 7%  
                                           | Follow Care Label AATCC 158 | After 1 Dry cleaning  
                                           |                                          | General Knits: ± 3%  
| Skew                                      | Fabric- AATCC 179 Method 2  
                                           | Garment- AATCC TS 004 (side seam skew) | Tops: 4% Maximum  
                                           |                                          | Bottoms: 3% Maximum  
                                           |                                          | Stripes: 5% Maximum  
| Bursting Strength                         | ASTM D3786  | 40 psi                                                                                   |
| Seam Strength (stretch ability)           | ASTM/AATCC TS-015 using existing seams | 35% elongation or minimum 7lbs. Pressure  
| Pilling Resistance                        | ASTM D3512  | Grade 3.5 at 30 minutes                                                                   |
| Perspiration                              | AATCC 15    | Color change: Grade 4.5  
                                           |                                          | Staining: Grade 4.0  
| pH Level                                  | AATCC 81    | pH 6-8                                                                                   |
| Wicking (if claimed)                      | AATCC 197 Vertical | 6” after 30 min.                                                                          |
| Absorbency (if claimed)                   | AATCC 79: after 1 laundering | < 5 second                                                                               |
| Colorfastness to Chlorine Bleach          | AATCC TS-001 | Color change: Grade 4.0  
| Colorfastness to Non-Chlorine Bleach      | AATCC TS-001 | Color change: Grade 4.0  
| Lightfastness (20 hours AFU exposure)      | AATCC 16 Option 3 | Light-Medium Dark **Special Sulfur  
                                           |                                           | Dry: 4.0 4.0 3.5 3.0  
                                           |                                           | Wet: 3.0 2.5 2.5 2.0  
| Crocking                                  | AATCC 8/116 | Light-Med. Dark **Special Sulfur  
|                                           |                                          | Color Change: 4.0 4.0 3.0  
|                                           |                                          | Staining: 4.0 4.0 3.0  
|                                           |                                          | Self-Staining: 4.5 4.5 4.5 4.0  
| Colorfastness to Laundering/ Dry Cleaning | AATCC 61/132 | Light-Med. Dark **Special Sulfur  
| Formaldehyde                              | JIS L1041  | 75 ppm                                                                                   |
| Antimicrobial/ Anti -Bacterial/ Anti-odor (if claimed) | AATCC 100 | *Staphylococcus Aureus* >95% reduction  
                                           |                                          | *Klebsiella Pneumoniae* >95% reduction  
| PFOS (required only if sample declared with functional finishing - e.g. grease, stain, water repellent) | SGS Method, HPLC-MS analysis or Intertek Method-Determination of Perfluorinated Carbon (PFC) --CO16.TP. | Prohibited  
| Stuffed Products Labeling (if applicable) | Canadian Upholstered & stuffed articles Regulations | ---Manufacturer must register in Manitoba, Ontario and Quebec to obtain a registration number  
                                           |                                          | ---Sewn in label is required listing filling material  

**Indigo dye, sulfur dye, raised surface etc.**

---**THE AGENT/ MANUFACTURER IS RESPONSIBLE TO ENSURE THAT THE REFERENCED STYLE CONFORMS TO ALL THE PERFORMANCE REQUIREMENTS LISTED ON THIS SPECIFICATION**

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### Knit Apparel

**Fine Gauge—Wool, Silk**

NPS-4

**Fiber Content:** 100% Wool, Wool blends, 100% Silk, Silk Blends

**End Use:** Tops, Shirts, Pants, Dresses, and Skirts

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability - all fabrics</td>
<td>16 CFR Part 1610</td>
<td>Class 1</td>
</tr>
</tbody>
</table>
|                                   | CAN/CGSB 4.2 No 27.5                             | ---Plain Surface: 3.5 Seconds or more
|                                   |                                                  | ---Raised-Fiber Surface: 4 seconds or more
|                                   |                                                  | & exhibit ignition or fusion of its base fibers. |
| Fabric Weight                     | ASTM D3776                                       | As specified ± 5%       |
| Thread Count (courses/wales)      | ASTM D3887 Section 12                            | As specified ± 5%       |
| Yarn Count (yarn size & ply)      | ASTM D1059, D1244                                | As specified ± 1 yarn size |
| Fiber Content                     | AATCC 20/20A                                     | Single Fiber: No Tolerance
|                                   |                                                  | Blended Fiber: ± 3%     |
| Appearance after Laundering/ Dry Cleaning | Visual Inspection ---After 3 launderings or 1 dry cleaning (follow care label) | Satisfactory             |
| Dimensional Stability             | Follow Care Label AATCC 135/150 ---After 3 Launderings | All Types: ± 3%       |
|                                   | Follow Care Label AATCC 158 ---After 1 dry cleaning | All Types: ± 2%        |
| Skew                              | Fabric-AATCC 179 Method 2 Garment- AATCC TS 004 (side seam skew) | T0ps: 4% Maximum
|                                   |                                                  | Bottoms: 3% Maximum
|                                   |                                                  | Stripes: 5% Maximum     |
| Bursting Strength                 | ASTM D3786                                       | 40 psi                  |
| Seam Strength (stretch ability)   | ASTM/AATCC TS-015 Using existing seams           | 35% elongation or Minimum 7lbs. Pressure |
| Pilling Resistance                | ASTM D3512                                       | Grade 3.5 at 30 minutes |
| Perspiration                      | AATCC 15                                         | Color change: Grade 4.5 |
|                                   |                                                  | Staining: Grade 4.0     |
| pH Level                          | AATCC 81                                         | pH 6-8                  |
| Colorfastness to Non-Chlorine Bleach | AATCC TS-001                                     | Color change: Grade 4.0 |
| Lightfastness                     | AATCC 16 Option 3                                | Light - Medium Dark     |
| Silk - 10 AFU exposure            |                                                  | 3.5 4.0                |
| All Others - 20 AFU exposure      |                                                  |                         |
| Colorfastness to Laundering/ Dry Cleaning | AATCC 61/132                                    | Color Change: Light - Medium Dark **Special
|                                   |                                                  | 4.0 4.0 4.0 4.0       |
|                                   |                                                  | Staining: 4.0 4.0 3.0  |
|                                   |                                                  | Self-Staining: 4.5 4.5 4.5    |
| Crocking                          | AATCC 8/116                                      | Light - Medium Dark **Special
|                                   |                                                  | Dry: 4.0 4.0 3.5       |
|                                   |                                                  | Wet: 3.0 2.5 2.5       |
| Formaldehyde                      | JIS L1041                                        | 75 ppm                  |
| PFOS (required only if sample declared with functional finishing - e.g. grease, stain and water repellent) | SGS Method, HPLC-MS analysis or Intertek Method-Determination of Perfluorinated Carbon (PFC) – C016.TP. | Prohibited             |
| Stuffed Products Labeling (if applicable) | Canadian Upholstered & stuffed articles Regulations | ---Manufacturer must register in Manitoba, Ontario and Quebec to obtain a registration number
|                                   |                                                  | ---Sewn in label is required listing filling material |

**THE AGENT/ MANUFACTURER IS RESPONSIBLE TO ENSURE THAT THE REFERENCED STYLE CONFORMS TO ALL THE PERFORMANCE REQUIREMENTS LISTED ON THIS SPECIFICATION**
**KNIT APPAREL**

**FINE GAUGE – MAN-MADE FIBERS**

**NPS-5**

*Fiber Content: Predominantly Acrylic, Acetate, Nylon, Polyester, Lyocell, Rayon*

*End Use: Tops, Shirts, Pants, Shorts, Dresses, Skirts, Activewear, Bras, Panties*

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability - all fabrics</td>
<td>16 CFR Part 1610/ CAN/CGSB 4.2 No 27.5</td>
<td>--- Plain Surface: 3.5 seconds or more&lt;br&gt;--- Raised-Fiber Surface: 4 seconds or more &amp; exhibit ignition or fusion of its base fibers.</td>
</tr>
<tr>
<td>Fabric Weight</td>
<td>ASTM D3776</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Thread Count (courses/wales)</td>
<td>ASTM D3887 Section 12</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Yarn Count (yarn size &amp; ply)</td>
<td>ASTM D1059, D1244</td>
<td>As specified ± 1 yarn size</td>
</tr>
<tr>
<td>Fiber Content</td>
<td>AATCC 20/20A</td>
<td>Single Fiber: No Tolerance&lt;br&gt;Blended Fiber: ± 3%</td>
</tr>
<tr>
<td>Appearance after Laundering/ Dry Cleaning</td>
<td>Visual Inspection (follow care label)&lt;br&gt;--- After 3 launderings or 1 dry cleaning</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>Dimensional Stability</td>
<td>Follow Care Label AATCC 135/150&lt;br&gt;--- After 3 Launderings</td>
<td>General, Fleece/French Terry: ±3%&lt;br&gt;Waffle/Rib/Ottoman: ±5%&lt;br&gt;Rayon/Lyocell: ±5%</td>
</tr>
<tr>
<td></td>
<td>Follow Care Label AATCC 158&lt;br&gt;--- After 1 dry cleaning</td>
<td>General Knits: ±3%</td>
</tr>
<tr>
<td>Skew</td>
<td>Fabric-AATCC 179 Method 2&lt;br&gt;Garment- AATCC TS-004(side seam)</td>
<td>Tops: 4% Maximum&lt;br&gt;Bottoms: 3% Maximum&lt;br&gt;Stripes: 5% Maximum</td>
</tr>
<tr>
<td>Bursting Strength</td>
<td>ASTM D3786</td>
<td>40 psi.</td>
</tr>
<tr>
<td>Seam Strength (stretch ability)</td>
<td>ASTM/AATCC TS-015&lt;br&gt;using existing seams</td>
<td>35% elongation or Minimum 7lbs. Pressure</td>
</tr>
<tr>
<td>Pilling Resistance</td>
<td>ASTM D3512</td>
<td>Grade 3.5 at 30 minutes</td>
</tr>
<tr>
<td>Perspiration</td>
<td>AATCC 15</td>
<td>Color change: Grade 4.5&lt;br&gt;Staining: Grade 4.0</td>
</tr>
<tr>
<td>pH Level</td>
<td>AATCC 81</td>
<td>pH 6-8</td>
</tr>
<tr>
<td>Wicking (if claimed)</td>
<td>AATCC 197</td>
<td>&lt; 5 seconds</td>
</tr>
<tr>
<td>Absorbency</td>
<td>AATCC 79</td>
<td>&lt; 5 seconds</td>
</tr>
<tr>
<td>Colorfastness to Chlorine Bleach</td>
<td>AATCC TS-001</td>
<td>Color change: Grade 4.0</td>
</tr>
<tr>
<td>Colorfastness to Non-chlorine Bleach</td>
<td>AATCC TS-001</td>
<td>Color change: Grade 4.0</td>
</tr>
<tr>
<td>Lightfastness (20 hours AFU exposure)</td>
<td>AATCC 16 OPTION 3</td>
<td>Light - Medium - Dark&lt;br&gt;Color change: 3.5 - 4.0</td>
</tr>
<tr>
<td>UPF (if labeled):</td>
<td>AATCC 183&lt;br&gt;ASTM D 6544&lt;br&gt;ASTM D6603- Labeling</td>
<td>15-24 - Good UV Protection&lt;br&gt;25-39 - Very Good UV Protection&lt;br&gt;40 ++ - Excellent UV Protection</td>
</tr>
<tr>
<td>Colorfastness to Laundering/ Dry Cleaning</td>
<td>AATCC 61/132</td>
<td>Light - Medium - Dark&lt;br&gt;Color Change: 4.0 - 4.0 - 4.0&lt;br&gt;Staining: 4.0 - 4.0 - 3.0&lt;br&gt;Self-Staining: 4.5 - 4.5 - 4.5</td>
</tr>
<tr>
<td>Crocking</td>
<td>AATCC 8/116</td>
<td>Light - Medium - Dark&lt;br&gt;Dry: 4.0 - 4.0 - 3.5&lt;br&gt;Wet: 3.0 - 2.5 - 2.5</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>JIS L1041</td>
<td>75 ppm</td>
</tr>
<tr>
<td>Antimicrobial/ Anti - Bacterial/ Anti-odor (if claimed)</td>
<td>AATCC 100</td>
<td>Staphylococcus Aureus &gt;95% reduction&lt;br&gt;Klebsiella Pneumoniae &gt;95% reduction</td>
</tr>
<tr>
<td>PFOS (required only if sample declared with functional finishing - e.g. grease, stain water repellent)</td>
<td>SGS Method, HPLC-MS analysis or Intertek Method-Determination of Perfluorinated Carbon (PFC) C016.TP.</td>
<td>Prohibited</td>
</tr>
<tr>
<td>Stuffed Products Labeling (if applicable)</td>
<td>Canadian Upholstered &amp; stuffed articles Regulations</td>
<td>Manufacturer must register in Manitoba, Ontario &amp; Quebec to obtain a registration number&lt;br&gt;--- Sewn in label required listing filling material</td>
</tr>
</tbody>
</table>

**Indigo dye, sulfur dye, raised surface etc.**

--- Manufacturer must register in Manitoba, Ontario & Quebec to obtain a registration number<br>--- Sewn in label required listing filling material

**Note:**
- **Special** in the table indicates a higher standard of performance for certain tests.
- **Indigo dye, sulfur dye, raised surface etc.**
- **THE AGENT/ MANUFACTURER IS RESPONSIBLE TO ENSURE THAT THE REFERENCED STYLE CONFORMS TO ALL THE PERFORMANCE REQUIREMENTS LISTED ON THIS SPECIFICATION**
## KNIT APPAREL

### SWEATERS—MAN-MADE FIBERS

**NPS-6**

*Fiber Content: Predominantly Acrylic, Rayon, Nylon, Polyester*  
*End Use: Sweaters, Sweater Vests, Cardigans, Pants, Skirts, Dresses*

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability - all fabrics</td>
<td>16 CFR Part 1610</td>
<td>Class 1</td>
</tr>
<tr>
<td></td>
<td>CAN/CGSB 4.2 No 27.5</td>
<td>---Plain Surface: 3.5 seconds or more</td>
</tr>
<tr>
<td></td>
<td></td>
<td>---Raised-Fiber Surface: 4 seconds or more &amp; exhibit ignition or fusion of its base fibers.</td>
</tr>
<tr>
<td>Garment Weight</td>
<td>Lbs / dozen. Size M</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Thread Count (courses/wales)</td>
<td>ASTM D3887</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Yarn Count (Yarn Size &amp; Ply)</td>
<td>ASTM D1059, D1244</td>
<td>As specified ±1 yarn size</td>
</tr>
<tr>
<td>Fiber Content</td>
<td>AATCC 20/20A</td>
<td>Single Fiber: No Tolerance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blended Fiber: ± 3%</td>
</tr>
<tr>
<td>Appearance after Laundering /Dry Cleaning</td>
<td>Visual Inspection ---After 3 launderings or 1 dry cleaning (follow care label)</td>
<td>Satisfactory</td>
</tr>
<tr>
<td></td>
<td>Follow Care Label AATCC 135/150 ---After 3 Launderings</td>
<td>Rayon/Lyocell ± 5%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All Others ± 3%</td>
</tr>
<tr>
<td></td>
<td>Follow Care Label AATCC 158 ---After 1 dry cleaning</td>
<td>Rayon/Lyocell ± 3%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All Others ± 2%</td>
</tr>
<tr>
<td>Skew</td>
<td>Fabric-AATCC 179 Method 2</td>
<td>Tops: 4% Maximum</td>
</tr>
<tr>
<td></td>
<td>Garment- AATCC TS 004 (side seam skew)</td>
<td>Bottoms: 3% Maximum</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Stripes: 5% Maximum</td>
</tr>
<tr>
<td>Bursting Strength</td>
<td>ASTM D3786</td>
<td>40 psi</td>
</tr>
<tr>
<td>Seam Strength (stretch ability)</td>
<td>ASTM/AATCC TS-015</td>
<td>35% elongation or minimum 7lbs. Pressure</td>
</tr>
<tr>
<td>Pilling Resistance</td>
<td>IWS TM152</td>
<td>4 hours- Grade 3.0</td>
</tr>
<tr>
<td>Perspiration</td>
<td>AATCC 15</td>
<td>Color change: Grade 4.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Staining: Grade 4.0</td>
</tr>
<tr>
<td>pH Level</td>
<td>AATCC 81</td>
<td>pH 6-8</td>
</tr>
<tr>
<td>Colorfastness to Chlorine Bleach</td>
<td>AATCC TS-001</td>
<td>Color change: Grade 4.0</td>
</tr>
<tr>
<td>Colorfastness to Non-Chlorine Bleach</td>
<td>AATCC TS-001</td>
<td>Color change: Grade 4.0</td>
</tr>
<tr>
<td>Lightfastness</td>
<td>AATCC 16 OPTION 3</td>
<td>Light - Medium Dark **Special</td>
</tr>
<tr>
<td>Silk - 10 AFU Exposure</td>
<td></td>
<td>Color change: 3.5</td>
</tr>
<tr>
<td>All Others-20 AFU exposure</td>
<td></td>
<td>Light - Medium Dark **Special</td>
</tr>
<tr>
<td>Colorfastness to Laundering/ Dry Cleaning</td>
<td>AATCC 61/132</td>
<td>Color Change: 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.0</td>
</tr>
<tr>
<td>Crocking</td>
<td>AATCC 8/116</td>
<td>Dry: 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.5</td>
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<tr>
<td></td>
<td></td>
<td>Wet: 3.0</td>
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<td></td>
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<td>2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.5</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>JIS L1041</td>
<td>75 ppm</td>
</tr>
<tr>
<td>PFOS (required only if sample declared with functional finishing - e.g. grease, stain, water repellent)</td>
<td>SGS Method, HPLC-MS analysis or Intertek Method-Determination of Perfluorinated Carbon (PFC)-C016.TP,</td>
<td>Prohibited</td>
</tr>
<tr>
<td>Stuffed Products Labeling (if applicable)</td>
<td>Canadian Upholstered &amp; stuffed articles Regulations</td>
<td>---Manufacturer must register in Manitoba, Ontario &amp; Quebec to obtain a registration number</td>
</tr>
<tr>
<td></td>
<td></td>
<td>---Sewn in label required listing filling material</td>
</tr>
</tbody>
</table>

**Indigo dye, sulfur dye, raised surface etc.**

THE AGENT/ MANUFACTURER IS RESPONSIBLE TO ENSURE THAT THE REFERENCED STYLE CONFORMS TO ALL THE PERFORMANCE REQUIREMENTS LISTED ON THIS SPECIFICATION
KNIT APPAREL
SWEATERS–NATURAL FIBERS

NPS-7  
Fiber Content: *Predominantly Cotton, Ramie, Linen, Silk, Wool*  
End Use: *Sweaters, Sweater Vests, Cardigans, Pants, Skirts, Dresses*

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability - all fabrics</td>
<td>16 CFR Part 1610</td>
<td>Class 1</td>
</tr>
</tbody>
</table>
|                           | CAN/CGSB 4.2 No 27.5                     | ---Plain Surface: 3.5 seconds or more  
|                           |                                          | ---Raised-Fiber Surface: 4 seconds or more  
|                           |                                          | & exhibit ignition or fusion of its base fibers.                                      |
| Garment Weight            | Lbs / dozen Size M                       | As specified ±5%                                                                        |
| Thread Count (courses/wales) | ASTM D3887                       | As specified ±5%                                                                        |
| Yarn Count (yarn size & ply) | ASTM D1059,D1244                      | As specified ±1 yarn size                                                               |
| Fiber Content             | AATCC 20/20A                             | Single Fiber: No Tolerance  
|                           |                                          | Blended Fiber: ±3%                                                                     |
| Appearance after Laundering / Dry Cleaning | Visual Inspection  
|                           | ---After 3 launderings or 1 dry cleaning (follow care label) | Satisfactory                                                                           |
| Dimensional Stability     | Follow Care Label AATCC 135/150          | All Types: ±5%                                                                         |
|                           | ---after 3 Launderings                  |                                                                                       |
|                           | Follow Care Label AATCC 158             | All Types: ±3%                                                                         |
|                           | ---after 1 Dry Cleaning                 |                                                                                       |
| Skew                      | Fabric-AATCC 179 Method 2  
|                           | Garment- AATCC TS-004(side seam)       | Tops: 4% Maximum  
|                           |                                          | Bottoms: 3% Maximum  
|                           |                                          | Stripes: 5% Maximum                                                                   |
| Bursting Strength         | ASTM D3786                              | 40 psi.                                                                                |
| Seam Strength             | ASTM/AATCC TS-015                       | 35% elongation or  
| (stretch ability)         | using existing seams                    | minimum 7lbs. Pressure                                                                 |
| Pilling Resistance        | IWS TM 152                              | Specialty wool/ Cashmere-2 hours Grade 3.0  
|                           |                                          | All others- 4 hours Grade 3.0                                                          |
| Perspiration              | AATCC 15                                | Color change: Grade 4.5  
|                           |                                          | Staining: Grade 4.0                                                                    |
| pH Level                  | AATCC 81                                | pH 6-8                                                                                 |
| Colorfastness to Chlorine Bleach | AATCC TS-001                  | Color change: Grade 4.0                                                                |
| Colorfastness to Non-Chlorine Bleach | AATCC TS-001    | Color change: Grade 4.0                                                                |
| Lightfastness             | AATCC 16 OPTION 3                       | Color change: Light -Medium Dark  
| Silk - 10Hours AFU exposure |                                          | 3.5  
| All Others-20 hours AFU exposure |                                          | 4.0                                                                              |
| Colorfastness to Laundering/ Dry Cleaning | AATCC 61/132                  | Color change: Light -Medium Dark  
|                           |                                          | **Special  
|                           |                                          | Color Change: 4.0  
|                           |                                          | 4.0  
|                           |                                          | 4.0  
|                           |                                          | Staining: 4.0  
|                           |                                          | 4.0  
|                           |                                          | 3.0  
|                           |                                          | Self-Staining: 4.5  
|                           |                                          | 4.5  
|                           |                                          | 4.5  
| Crocking                  | AATCC 8/116                             | Color change: Light -Medium Dark  
|                           |                                          | **Special  
|                           |                                          | Dry: 4.0  
|                           |                                          | 4.0  
|                           |                                          | 3.5  
|                           |                                          | Wet: 3.0  
|                           |                                          | 2.5  
|                           |                                          | 2.5  
| Formaldehyde              | JIS L1041                               | 75 ppm                                                                                 |
| PFOS (required only if sample declared with functional finishing - e.g. grease, stain and water repellent) | SGS Method, HPLC-MS analysis or Intertek Method-Determination of Perfluorinated Carbon (PFC) C016.TP. | Prohibited                                                                          |
| Stuffed Products Labeling (if applicable) | Canadian Upholstered & stuffed articles Regulations | ---Manufacturer must register in Manitoba, Ontario & Quebec to obtain a registration number  
|                           |                                          | ---Sewn in label required listing filling material                                      |

**Indigo dye, sulfur dye, raised surface etc.**

THE AGENT/ MANUFACTURER IS RESPONSIBLE TO ENSURE THAT THE REFERENCED STYLE CONFORMS TO ALL THE PERFORMANCE REQUIREMENTS LISTED ON THIS SPECIFICATION

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## KNIT APPAREL

### SWIMWEAR / SWIMWEAR COVER-UPS

**NPS-8**  
*Fiber Content: Predominantly Cotton, Polyester, Rayon, Viscose, Nylon and Spandex Blends*  
*End Use: Swimwear, Activewear*

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
</table>
| Flammability - all fabrics                | 16 CFR Part 1610 CAN/CGBS 4.2 No 27.5| Class 1  
---Plain Surface: 3.5 seconds or more  
---Raised-Fiber Surface: 4 seconds or more & exhibit ignition or fusion of its base fibers. |
| Fabric Weight                             | ASTM D3776                           | As specified ± 5%                                           |
| Thread Count (courses/wales)              | ASTM D3887                           | As specified ± 5%                                           |
| Yarn Count (yarn size & ply)              | ASTM D1059, D1244                    | As specified ± 1 yarn size                                  |
| Fiber Content                             | AATCC 20/20A                         | Single Fiber: No Tolerance                                  |
| Appearance after Laundering               | Visual Inspection                    | Satisfactory                                               |
| Dimensional Stability -After 3 Launderings| Following Care Label AATCC 135/150   | Fleece/ French Terry: ±3%                                   |
|                                           |                                      | Waffle/Thermal/Rib/Interlock/Ottoman: ±5%                   |
|                                           |                                      | Rayon: ±3%                                                  |
|                                           |                                      | All Others: ±3%                                             |
|                                           | AATCC 158                            | Rayon: ±3%                                                  |
| Skew                                      | Fabric: AATCC 179 Method 2 Garment: AATCC TS-004(side seam) | 4% Maximum                                                  |
|                                           |                                      | Tops:                                                       |
|                                           |                                      | Bottoms: 3% Maximum                                         |
|                                           |                                      | Stripes: 5% Maximum                                         |
| Bursting Strength                         | ASTM D3786                           | 40 psi.                                                     |
| Seam Strength (stretch ability)           | ASTM/AATCC TS-015 using existing seams | 35% elongation or minimum 7 lbs. pressure                   |
| Pilling Resistance                        | ASTM D3512                           | Grade 3.5 at 30 minutes                                     |
| Perspiration                              | AATCC T5                             | Color change: Grade 4.5                                     |
|                                           |                                      | Staining: Grade 4.0                                         |
| pH Level                                  | AATCC 81                             | pH 6-8                                                      |
| Colorfastness to Chlorine Bleach          | AATCC TS-001                         | Color change: Grade 4.0                                     |
| Colorfastness to Non-Chlorine bleach      | AATCC TS-001                         | Color change: Grade 4.0                                     |
| Colorfastness to Sea Water (Swimwear Only)| AATCC 108                            | Color change: Neons  
|                                           |                                      | All Others:                                                |
|                                           |                                      | 3.0                                                        |
|                                           |                                      | 4.0                                                        |
| Colorfastness to Chlorinated Pool Water (Swimwear Only) | AATCC 162 | Color change: Neons  
|                                           |                                      | All Others:                                                |
|                                           |                                      | 3.0                                                        |
|                                           |                                      | 4.0                                                        |
| UPF (if labeled):                         | AATCC 183                            | 15-24 - Good UV Protection                                  |
|                                           | ASTM D 6544                          | 25-39 –Very Good UV Protection                              |
|                                           | ASTM D6603 Labeling                  | 40 + Excellent UV Protection                                |
| Lightfastness                             | AATCC 16 OPTION 3                    | Color change: Neons Light -Medium Dark                     |
| Cover-ups - 20 hours AFU Swimwear - 40 hours AFU |                       | 2.5  
|                                           |                                      | 3.5  
|                                           |                                      | 4.0                                                        |
| Colorfastness to Laundering/ Dry Cleaning | AATCC 61/132                         | Color change: Neons Light - Medium Dark                     |
|                                           |                                      | All Others:                                                |
|                                           |                                      | 4.0                                                        |
|                                           |                                      | 4.0                                                        |
|                                           |                                      | Self-Staining: 4.5                                         |
|                                           |                                      | 4.5                                                        |
| Crocking                                  | AATCC 8/116                          | Color change: Neons Light - Medium Dark                     |
|                                           |                                      | All Others:                                                |
|                                           |                                      | 4.0                                                        |
|                                           |                                      | 4.0                                                        |
|                                           |                                      | 3.0                                                        |
|                                           |                                      | 2.5                                                        |
| Formaldehyde                              | JIS L1041                            | 75 ppm                                                      |
| PFOS (required only if sample declared with functional finishing - e.g. grease, stain, water repellent ) | SGS Method, HPLC-MS analysis or InterTek Method-Determination of Perfluorinated Carbon (PFC) C016.TP. | Prohibited |
| Stuffed Products Labeling (if applicable) | Canadian Upholstered & stuffed articles Regulations | Manufacturer must register in Manitoba, Ontario & Quebec to obtain a registration number  
---Sewn in label required listing filling material

---

**THE AGENT/ MANUFACTURER IS RESPONSIBLE TO ENSURE THAT THE REFERENCED STYLE CONFORMS TO ALL THE PERFORMANCE REQUIREMENTS LISTED ON THIS SPECIFICATION**

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**WOVEN APPAREL**

**DENIM & CHAMBRAY**, Stretch denim, Indigo & Sulfur Dyed

**NPS-13**

**Fiber Content:** Cotton, CVC & Spandex Blends

**End Use:** Jeans, Pants, Skirts, Overalls, Coveralls, Vests, Jackets, Blouses, Shirts, Dresses

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability - all fabrics</td>
<td>16 CFR Part 1610</td>
<td>Class 1</td>
</tr>
<tr>
<td></td>
<td>CAN/CGSB 4.2 No 27.5</td>
<td>---Plain Surface: 3.5 seconds or more</td>
</tr>
<tr>
<td></td>
<td></td>
<td>---Raised-Fiber Surface: 4 seconds or more &amp; exhibit ignition or fusion of its base fibers.</td>
</tr>
<tr>
<td>Fabric Weight</td>
<td>ASTM D3776</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Thread Count (warp/fill)</td>
<td>ASTM D3775</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Yarn Count (yarn size &amp; ply)</td>
<td>ASTM D1059, D1244</td>
<td>As specified ±1 yarn size</td>
</tr>
<tr>
<td>Fiber Content</td>
<td>AATCC 20/20A</td>
<td>Single Fiber: No Tolerance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blended Fiber: ± 3%</td>
</tr>
<tr>
<td>Dimensional Stability</td>
<td>AATCC 135/150 --After 3 launderings</td>
<td>Length and Width: 3% Maximum</td>
</tr>
<tr>
<td>(follow care label)</td>
<td>AATCC 158 --After 1 dry cleaning</td>
<td>Length and Width: 2% Maximum</td>
</tr>
<tr>
<td>Appearance after Laundering</td>
<td>Visual Inspection</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>Skew</td>
<td>Fabric-AATCC 179 Method 2</td>
<td>Tops: 4% Maximum</td>
</tr>
<tr>
<td></td>
<td>Garment- AATCC TS-004(side seam)</td>
<td>Bottoms: 3% Maximum</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D5034</td>
<td>≤3.9 oz./yd²</td>
</tr>
<tr>
<td></td>
<td>Warp: 25 lbs. 35 lbs. 45 lbs.</td>
<td>≥7 oz./yd²</td>
</tr>
<tr>
<td></td>
<td>Fill: 25 lbs. 35 lbs. 45 lbs.</td>
<td></td>
</tr>
<tr>
<td>Tear Strength</td>
<td>ASTM D1424</td>
<td>≤3.9 oz./yd²</td>
</tr>
<tr>
<td></td>
<td>Warp: 2.0 lbs. 2.5 lbs. 3.0 lbs.</td>
<td>≥7 oz./yd²</td>
</tr>
<tr>
<td></td>
<td>Fill: 2.0 lbs. 2.5 lbs. 3.0 lbs.</td>
<td></td>
</tr>
<tr>
<td>Seam Strength</td>
<td>ASTM D1683 using existing seams</td>
<td>Tops: 25 lbs.</td>
</tr>
<tr>
<td></td>
<td>Bottoms: 35 lbs.</td>
<td></td>
</tr>
<tr>
<td>Seam Slippage</td>
<td>ASTM D1683 using existing seams</td>
<td>Tops: 20 lbs. @ 1/4&quot;</td>
</tr>
<tr>
<td></td>
<td>Bottoms: 25 lbs. @ 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>Stretch and Recovery (if ≤3% elastomeric/stretch fiber)</td>
<td>ASTM 3107 or ASTM D6614</td>
<td>Extension : 15% @ 4 lbs./2&quot;Width</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Growth: 7% Tops @ 30 min</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5% Bottoms @ 30 min.</td>
</tr>
<tr>
<td>Abrasion Resistance</td>
<td>ASTM D3886</td>
<td>Grade 3.0 After 300 Cycles</td>
</tr>
<tr>
<td>pH Level</td>
<td>AATCC 81</td>
<td>pH 6-8</td>
</tr>
<tr>
<td>Ozone</td>
<td>AATCC 109</td>
<td>(Two Cycles) Color Change: Grade 4.0</td>
</tr>
<tr>
<td>Perspiration</td>
<td>AATCC 15</td>
<td>Color change: Grade 4.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Staining: Grade 4.0</td>
</tr>
<tr>
<td>Colorfastness to Non-Chlorine Bleach</td>
<td>AATCC TS-001</td>
<td>Color change: Grade 4.0</td>
</tr>
<tr>
<td>Lightfastness - 20 hours AFU exposure</td>
<td>AATCC 16 OPTION 3</td>
<td>Color change: Light-Medium-Dark</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.5-4.0</td>
</tr>
<tr>
<td>Colorfastness to Laundering/ Dry Cleaning</td>
<td>AATCC 61/132</td>
<td>Non-washed/Indigo/Black</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Washed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Color Change: 3.0</td>
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<tr>
<td></td>
<td></td>
<td>3.0</td>
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<tr>
<td></td>
<td></td>
<td>Staining: 3.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Self-Staining: 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4.0</td>
</tr>
<tr>
<td>Crocking</td>
<td>AATCC 8/116</td>
<td>Non-washed/Indigo/Black</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Washed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dry: 3.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wet: 1.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.0</td>
</tr>
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<td>Formaldehyde</td>
<td>JIS L1041</td>
<td>75 ppm</td>
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<td>PFOS (required only if sample declared with functional finishing - e.g. grease, stain, water repellant)</td>
<td>SGS Method, HPLC-MS analysis or Intertek Method-Determination of Perfluorinated Carbon (PFC) – C016.TP.</td>
<td>Prohibited</td>
</tr>
<tr>
<td>Stuffed Products Labeling (if applicable)</td>
<td>Canadian Upholstered &amp; stuffed articles Regulations</td>
<td>---Manufacturer must register in Manitoba, Ontario &amp; Quebec to obtain a registration number</td>
</tr>
<tr>
<td></td>
<td></td>
<td>---Sewn in label required listing filling material</td>
</tr>
</tbody>
</table>

**NOTE:** Fabric must be in finished state when it is submitted for testing, i.e. wet processed or garment wash etc.
WOVEN APPAREL

SILK

NPS-14

Fiber Content: **100% Silk, CV Silk Blends, Silk Spandex Blends**

End Use: Shirts, Blouses, Dresses, Skirts, Pants, Jackets

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
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<td>Flammability - all fabrics</td>
<td>16 CFR Part 1610</td>
<td>Class 1</td>
</tr>
<tr>
<td>Fabric Weight</td>
<td>ASTM D3776</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Thread Count (warp/fill)</td>
<td>ASTM D3775</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Yarn Count (yarn size &amp; ply)</td>
<td>ASTM D1059, D1244</td>
<td>As specified ± 1 yarn size</td>
</tr>
<tr>
<td>Fiber Content</td>
<td>AATCC 20/20A</td>
<td>Single Fiber: No Tolerance</td>
</tr>
<tr>
<td>Dimensional Stability</td>
<td>AATCC 135/150 ---After 3 launderings</td>
<td>Length and Width: 3% Maximum</td>
</tr>
<tr>
<td>(follow care label)</td>
<td>AATCC 158 ---After 1 dry cleaning</td>
<td>Length and Width: 2% Maximum</td>
</tr>
<tr>
<td>Skew</td>
<td>Fabric-AATCC 179 Method 2</td>
<td>3% Maximum</td>
</tr>
<tr>
<td>Appearance after Laundering/ Dry Clean</td>
<td>Visual Inspection</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>Tensile Strength (warp &amp; Fill)</td>
<td>ASTM D5034</td>
<td>&lt;68 g/m² 68-135 g/m² &gt;135 g/m²</td>
</tr>
<tr>
<td>Tear Strength (warp &amp; Fill)</td>
<td>ASTM D1424</td>
<td>Tops: 15 lbs. 25 lbs. 30 lbs. Bottoms: 15 lbs. 25 lbs. 35 lbs.</td>
</tr>
<tr>
<td>Seam Strength</td>
<td>ASTM D1683 using existing seams</td>
<td>&lt; 68 g/m² 15 lbs. &gt;68 g/m²</td>
</tr>
<tr>
<td>Seam Slippage</td>
<td>ASTM D1683 using existing seams</td>
<td>Tops: 15 lbs. @ 1/4&quot; Bottoms: 20 lbs. @ 1/4&quot;</td>
</tr>
<tr>
<td>Stretch and Recovery (if ≥3% elastomeric/stretch fiber)</td>
<td>ASTM 3107 or ASTM D6614</td>
<td>Extension : 15% @ 4lbs. @ 2&quot; Width</td>
</tr>
<tr>
<td>Abrasion Resistance</td>
<td>ASTM D4966</td>
<td>Grade 4.0 after 10,000 cycles</td>
</tr>
<tr>
<td>Pilling Resistance</td>
<td>ASTM D4970</td>
<td>Grade 4.0 after 100 cycles</td>
</tr>
<tr>
<td>Perspiration</td>
<td>AATCC 15</td>
<td>Color change: Grade 4.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Staining: Grade 4.0</td>
</tr>
<tr>
<td>Crocking</td>
<td>AATCC 8/116</td>
<td>Color change: Grade 4.0</td>
</tr>
<tr>
<td>Colorfastness to Non-Chlorine bleach</td>
<td>AATCC TS-001</td>
<td>Light -Medium Dark **Special</td>
</tr>
<tr>
<td>Colorfastness to Laundering</td>
<td>AATCC 61/132</td>
<td>Dry: 4.0 3.5 3.5 Wet: 3.0 2.5 2.0</td>
</tr>
<tr>
<td>Colorfastness to Dry cleaning</td>
<td>AATCC 132</td>
<td>Color Change: 4.0 4.0 4.0</td>
</tr>
<tr>
<td>pH level</td>
<td>AATCC 81</td>
<td>Light -Medium Dark **Special</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>JIS L1041</td>
<td>Color Change: 3.5 4.0 4.0</td>
</tr>
<tr>
<td>PFOS (required only if sample declared with functional finishing - e.g. grease, stain and water repellent)</td>
<td>SGS Method, HPLC-MS analysis or Intertek Method-Determination of Perfluorinated Carbon (PFC) C016.TP.</td>
<td>Prohibited</td>
</tr>
<tr>
<td>Stuffed Products Labeling</td>
<td>Canadian Upholstered &amp; stuffed articles Regulations</td>
<td>Manufacturer must register in Manitoba, Ontario &amp; Quebec to obtain a registration number ---Sewn in label required listing filling material</td>
</tr>
</tbody>
</table>

**Indigo dye, sulfur dye, raised surface etc.**

THE AGENT/ MANUFACTURER IS RESPONSIBLE TO ENSURE THAT THE REFERENCED STYLE CONFORMS TO ALL THE PERFORMANCE REQUIREMENTS LISTED ON THIS SPECIFICATION

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WOVEN APPAREL

STRETCH WOVEN (3% OR MORE ELASTOMERIC/STRETCH FIBER)

NPS-15

Fiber Content: Cotton/Spandex, Polyester/Spandex, Rayon/Spandex, Wool/Spandex,
End Use: Tops, Blouses, Pants, Skirts, Dresses, Jackets, Vests

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability - all fabrics</td>
<td>16 CFR Part 1610</td>
<td>Class 1</td>
</tr>
<tr>
<td>Fabric Weight</td>
<td>CAN/CGSB 4.2 No 27.5</td>
<td>--- Plain Surface: 3.5 seconds or more</td>
</tr>
<tr>
<td></td>
<td></td>
<td>--- Raised-Fiber Surface: 4 seconds or more &amp; exhibit ignition or fusion of its base fibers.</td>
</tr>
<tr>
<td>Fabric Weight</td>
<td>ASTM D3776</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Thread Count (courses/wales)</td>
<td>ASTM D3775</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Yarn Count (yarn size &amp; ply)</td>
<td>ASTM D1059, D1244</td>
<td>As specified ± 1 yarn size</td>
</tr>
<tr>
<td>Fiber Content</td>
<td>AATCC 20/20A</td>
<td>Single Fiber: No Tolerance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blended Fiber: ± 3%</td>
</tr>
<tr>
<td>Dimensional Stability</td>
<td>AATCC 135/150</td>
<td>Length and Width: 4% Maximum</td>
</tr>
<tr>
<td>(follow care label)</td>
<td>AATCC 15</td>
<td>Length and Width: 3% Maximum</td>
</tr>
<tr>
<td>Appearance after Laundering/ Dry</td>
<td>Visual Inspection</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>Cleaning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skew</td>
<td>Fabric - AATCC 179 Method 2 Garment - AATCC TS-004 (side seam)</td>
<td>3% Maximum</td>
</tr>
<tr>
<td>Tensile Strength (Warp and Fill)</td>
<td>ASTM D5034</td>
<td>±68 g/m², 68-135 g/m², &gt;135 g/m²</td>
</tr>
<tr>
<td></td>
<td>Tops: 15 lbs., 25 lbs., 30 lbs.</td>
<td></td>
</tr>
<tr>
<td>Tear Strength (warp &amp; Fill)</td>
<td>ASTM D1424</td>
<td>&lt;68 g/m², &gt;68 g/m²</td>
</tr>
<tr>
<td></td>
<td>Tops 1.5 lbs., 2.0 lbs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bottoms 1.5 lbs., 2.5 lbs.</td>
<td></td>
</tr>
<tr>
<td>Seam Strength</td>
<td>ASTM D1683</td>
<td>&lt;68 g/m²</td>
</tr>
<tr>
<td></td>
<td>Tops 15 lbs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bottoms &gt;68 g/m²</td>
<td></td>
</tr>
<tr>
<td></td>
<td>25 lbs.</td>
<td></td>
</tr>
<tr>
<td>Seam Slippage</td>
<td>ASTM D1683 using existing seams</td>
<td>20 lbs. @ 1/4&quot;</td>
</tr>
<tr>
<td>Stretch and Recovery (if &gt;3%</td>
<td>ASTM 3107 or ASTM D6614</td>
<td>Extension: 15% @ 4 lbs./2&quot; Width</td>
</tr>
<tr>
<td>elastomeric/stretch fiber)</td>
<td></td>
<td>Growth: 7% Tops @ 30 min</td>
</tr>
<tr>
<td></td>
<td></td>
<td>5% Bottoms @ 30 min</td>
</tr>
<tr>
<td>Abrasion Resistance</td>
<td>ASTM D4966</td>
<td>Grade 4.0 after 20,000 cycles (tops)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Grade 4.0 after 30,000 cycles (pants)</td>
</tr>
<tr>
<td>Pilling Resistance</td>
<td>ASTM D4970</td>
<td>Grade 4.0 after 100 cycles</td>
</tr>
<tr>
<td>Perspiration</td>
<td>AATCC 15</td>
<td>Color change: Grade 4.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Staining: Grade 4.5</td>
</tr>
<tr>
<td>Colorfastness to Chlorine Bleach</td>
<td>ASTM/AATCC TS-001</td>
<td>Color change: Grade 4.0</td>
</tr>
<tr>
<td>Colorfastness to Non-Chlorine Bleach</td>
<td>ASTM/AATCC TS-001</td>
<td>Color change: Grade 4.0</td>
</tr>
<tr>
<td>Lightfastness</td>
<td>AATCC 16 OPTION 3</td>
<td>Color Change: Light-Med 3.5 Dark 4.0</td>
</tr>
<tr>
<td>- 20 hours AFU exposure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- 10 hours AFU exposure (silk)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colorfastness to Washing or Dry</td>
<td>AATCC 61/132</td>
<td>Color Change: Light-Medium 4.0 Dark 4.0</td>
</tr>
<tr>
<td>Cleaning (for stretch denim see NPS-13)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crocking (for stretch denim see NPS-13)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH level</td>
<td>AATCC 81</td>
<td>pH 6-8</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>JIS L1041</td>
<td>75 ppm</td>
</tr>
<tr>
<td>PFOS (required only if sample</td>
<td>SGS Method, HPLC-MS analysis or Intertek</td>
<td>Prohibited</td>
</tr>
<tr>
<td>declared with functional finishing - e.g.</td>
<td>Method-Determination of Perfluorinated Carbon (PFC) C016.TP.</td>
<td></td>
</tr>
<tr>
<td>Stuffed Products Labeling (if</td>
<td>Canadian Upholstered &amp; stuffed articles</td>
<td>--- Manufacturer must register in Manitoba, Ontario &amp; Quebec to obtain a registration number</td>
</tr>
<tr>
<td>applicable)</td>
<td>Regulations</td>
<td>--Sewn in label required listing filling material</td>
</tr>
<tr>
<td><strong>Indigo dye, sulfur dye, raised surface etc.</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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### WOVEN APPAREL

#### WOOL AND SPECIALITY FIBERS

**Fiber Content:** 100% Wool, CV Wool Blends, Camel, Cashmere  
**End Use:** Coats, Jackets, Vests, Skirts, Trousers, Suiting

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability - all fabrics</td>
<td>16 CFR Part 1610</td>
<td>Class 1</td>
</tr>
<tr>
<td>Fabric Weight</td>
<td>ASTM D3776</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Thread Count (warp/fill)</td>
<td>ASTM D3775</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Yarn Count (yarn size &amp; ply)</td>
<td>ASTM D1059, D1244</td>
<td>As specified ± 1 yarn size</td>
</tr>
</tbody>
</table>
| Fiber Content                | AATCC 20/20A                     | Single Fiber: No Tolerance  
|                              |                                  | Blended Fiber: ± 3%      |
| Dimensional Stability        | Follow Care Label AATCC 135/150  |
|                              | ---After 3 Launderings           | Length and Width: 3% Maximum |
|                              | Following Care Label AATCC 158   |
|                              | ---After 1 dry cleaning          | Length and Width: 2% Maximum |
| Appearance after Laundering/ Dry Cleaning | Visual Inspection ---After 3 launderings or 1 dry cleaning (follow care label) | Satisfactory |
| Skew                         | Fabric-AATCC 179 Method 2        | 3% Maximum |
| Tensile Strength (warp &fill)| ASTM D5034                       | <68 g/m²  
|                              |                                  | 68-135 g/m²  
|                              |                                  | >135 g/m²  
|                              | Tops: 15 lbs.  25 lbs.  30 lbs.  
|                              | Bottoms: 15 lbs.  25 lbs.  35 lbs.  
| Tear Strength (warp & fill)  | ASTM D1424                       | < 68 g/m²  
|                              |                                  | >/= 68 g/m²  
|                              | Tops 1.5 lbs.  2.0 lbs.  
|                              | Bottoms 1.5 lbs.  2.5 lbs.      |
| Seam Strength                | ASTM D1683                       | < 68 g/m²  
|                              |                                  | 15 lbs.  
|                              | >= 68 g/m²  
|                              | 25 lbs.  
| Seam Slippage                | ASTM D1683 using existing seams | 20 lbs. @ 1/4" |
| Pilling Resistance           | ASTM D4970                       | Grade 3.0 after 300 cycles |
| Perspiration                 | AATCC 15                         | Color change: Grade 4.5  
|                              |                                  | Staining: Grade 4.0   |
| Colorfastness to Non-Chlorine Bleach | AATCC TS-001                  | Color change: Grade 4.0 |
| Lightfastness - 20 hours AFU exposure | AATCC 16 OPTION 3               | Light-Medium: 3.5  
|                              |                                  | Dark: 4.0            |
| Colorfastness to Laundering or Dry Cleaning | AATCC 61/132                   | Light-Medium: 4.0  
|                              |                                  | Dark: 4.0            |
|                              |                                  | **Special: 4.0        |
|                              |                                  | Color Change: 4.0  
|                              |                                  | 4.0  
|                              |                                  | 4.0  
|                              |                                  | Staining: 4.0  
|                              |                                  | 4.0  
|                              |                                  | 3.0  
|                              |                                  | Self-Staining: 4.5  
|                              |                                  | 4.5  
|                              |                                  | 4.5  
| Crocking                     | AATCC 8/116                      | Light-Medium: 4.0  
|                              |                                  | Dark: 4.0            |
|                              |                                  | **Special: 3.5        |
|                              | Dry: 4.0  4.0  3.5               |
|                              | Wet: 3.0  2.5  2.5               |
| pH level                     | AATCC 81                         | pH 4.5-7               |
| Formaldehyde                 | JIS L1041                        | 75 ppm                 |
| PFOS (required only if sample declared with functional finishing - e.g. grease, stain and water repellent) | SGS Method, HPLC-MS analysis or Intertek Method-Determination of Perfluorinated Carbon (PFC) C016.TP. | Prohibited |
| Stuffed Products Labeling (if applicable) | Canadian Upholstered & stuffed articles Regulations | Manufacturer must register in Manitoba, Ontario & Quebec to obtain a registration number  
|                              |                                  | ---Sewn in label required listing filling material |

**Indigo dye, sulfur dye, raised surface etc.**

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## WOVEN APPAREL
### TERRY CLOTH/VELOUR
#### NPS-17

**Fiber Content:** 100% Cotton  
**End Use:** Robes, Beach Robes

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability - all fabrics</td>
<td>16 CFR Part 1610</td>
<td>Class 1</td>
</tr>
</tbody>
</table>
|                                   | CAN/CGSB 4.2 No 27.5                             | ---Plain Surface: 3.5 seconds or more  
|                                   |                                                  | ---Raised-Fiber Surface: 4 seconds or more & exhibit ignition or fusion of its base fibers |
| Fabric Weight                     | ASTM D3776                                       | As specified ± 5%                                |
| Thread Count (warp/fill)          | ASTM D3775                                       | As specified ± 5%                                |
| Yarn Count (yarn size & ply)      | ASTM D1059, D1244                                | As specified ± 1 yarn size                       |
| Fiber Content                     | AATCC 20/20A                                     | Single Fiber: No Tolerance                       |
|                                   |                                                  | Blended Fiber: ± 3%                              |
| Dimensional Stability (follow care label) | AATCC 135/150 −after 3 launderings | Length and Width: 5% Maximum                     |
| Appearance after Laundering       | Visual Inspection                                | Satisfactory                                     |
| Skew                              | Fabric-AATCC 179 Method 2 Garment- AATCC TS 004 (side seam) | 3% Maximum                                       |
| Tensile Strength                  | ASTM D5034                                       | Warp and Fill: 25 lbs.                           |
| Tear Strength                     | ASTM D1424                                       | Warp and Fill: 2.5 lbs.                          |
| Seam Strength                     | ASTM D1683 using existing seams                  | 25 lbs.                                          |
| Seam Slippage                     | ASTM D1683 using existing seams                  | 20 lbs. @ 1/4"                                   |
| Pile Retention                    | ASTM D4685 Option B                              | 3.0                                              |
| Absorbency (if Claimed)           | ASTM 4772                                        | after 1 laundering 50% minimum                   |
| Perspiration                      | AATCC 15                                         | Color change: 4.5                               |
|                                   |                                                  | Staining: 4.0                                    |
| Colorfastness to Chlorine Bleach  | AATCC TS-001                                     | Color Change: 4.0                               |
| Colorfastness to Non-Chlorine Bleach | AATCC TS-001                                  | Color change: 4.0                               |
| pH level                          | AATCC 81                                         | pH 6-8                                           |
| Lightfastness - 20 hours AFU exposure | AATCC 16 OPTION 3                              | Color change: Light-Medium 4.0  
|                                   |                                                  | Medium Dark Velour 4.0                             |
| Colorfastness to Laundering/      | AATCC 61/132                                     | Color Change: 4.0                               |
| Dry Cleaning                      |                                                  | Staining: 4.0                                    |
|                                   |                                                  | Self-Staining: 4.5                               |
| Crocking                          | AATCC 8/116                                      | Dry: 4.0                                        |
|                                   |                                                  | Light-Medium 4.0                                 |
|                                   |                                                  | Dark Velour 4.0                                  |
|                                   |                                                  | Wet: 3.0                                        |
| Colorfastness to Sea Water        | AATCC 106                                        | Color Change: 4.0                               |
| (Swim Cover ups)                  |                                                  | Staining: 3.0                                    |
| Colorfastness to Chlorinated Pool Water (Swim Cover-ups) | AATCC 182 | Color change: Grade 4.0                        |
| Formaldehyde                      | JIS L1041                                        | 75 ppm                                           |
| PFOS (required only if sample declared with functional finishing - e.g. grease, stain, water repellent) | SGS Method, HPLC-MS analysis or InterTek Method-Determination of PerFluorinated Carbon (PFC) C016.TP | Prohibited                                      |
| Stuffed Products Labeling (if applicable) | Canadian Upholstered & stuffed articles Regulations | ---Manufacturer must register in Manitoba, Ontario & Quebec to obtain a registration number  
|                                   |                                                  | ---Sewn in label required listing filling material |

---

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## WOVEN APPAREL

**WATER REPELLENT WOVENS**

**NPS-18**

_Fiber Content: Cotton, CVC Blends, Nylon and Polyester Microfibers, PVC, PU, Soft Plastics_  
_End Use: Raincoats, Trench Coats, Jackets, Outerwear_

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability - all fabrics</td>
<td>16 CFR Part 1610</td>
<td>Class 1</td>
</tr>
<tr>
<td></td>
<td>CAN/CGSB 4.2 No 27.5</td>
<td>---Plain Surface: 3.5 seconds or more</td>
</tr>
<tr>
<td></td>
<td></td>
<td>---Raised-Fiber Surface: 4 seconds or more &amp; exhibit ignition or fusion of its base fibers.</td>
</tr>
<tr>
<td>Fabric Weight</td>
<td>ASTM D3776</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Thread Count (warp/fill)</td>
<td>ASTM D3775</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Yarn Count (yarn size &amp; ply)</td>
<td>ASTM D1059, D1244</td>
<td>As specified ± 1 yarm size</td>
</tr>
<tr>
<td>Fiber Content</td>
<td>AATCC 20/20A</td>
<td>Single Fiber: No Tolerance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blended Fiber: ± 3%</td>
</tr>
<tr>
<td>Dimensional Stability</td>
<td>AATCC 135/150</td>
<td>---after 3 launderings</td>
</tr>
<tr>
<td>(follow care label)</td>
<td>AATCC 158</td>
<td>---after 1 dry cleaning</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Length and Width: 3% Maximum</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Length and Width: 2% Maximum</td>
</tr>
<tr>
<td>Appearance after Laundering/ Dry Clean</td>
<td>Visual Inspection</td>
<td>Satisfactory</td>
</tr>
<tr>
<td></td>
<td>Fabric-AATCC 179 Method 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Garment- AATCC TS 004 (side seam)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>3% Maximum</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D5034</td>
<td>&lt;68 g/m² 68-135 g/m² &gt;135 g/m²</td>
</tr>
<tr>
<td></td>
<td>Tops: 15 lbs. 25 lbs. 30 lbs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bottoms: 15 lbs. 25 lbs. 35 lbs.</td>
<td></td>
</tr>
<tr>
<td>Tear Strength</td>
<td>ASTM D1424</td>
<td>&lt; 68 g/m² &gt; 68 g/m²</td>
</tr>
<tr>
<td></td>
<td>Tops 1.5 lbs. 2.0 lbs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bottoms 1.5 lbs. 2.5 lbs.</td>
<td></td>
</tr>
<tr>
<td>Seam Strength</td>
<td>ASTM D1683 using existing seams</td>
<td>45 lbs.</td>
</tr>
<tr>
<td>Seam Slippage</td>
<td>ASTM D1683 using existing seams</td>
<td>20 lbs. @ 1/4”</td>
</tr>
<tr>
<td>Abrasion Resistance</td>
<td>ASTM D4966</td>
<td>Grade 4.0 after 20,000 cycles</td>
</tr>
<tr>
<td>Pilling Resistance</td>
<td>ASTM D4970</td>
<td>Grade 4.0 after 100 cycles</td>
</tr>
<tr>
<td>Perspiration</td>
<td>AATCC 15</td>
<td>Color change: Grade 4.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Staining: Grade 4.0</td>
</tr>
<tr>
<td>Colorfastness to Chlorine Bleach</td>
<td>AATCC TS-001</td>
<td>Color change: Grade 4.0</td>
</tr>
<tr>
<td>Colorfastness to Non-Chlorine Bleach</td>
<td>AATCC TS-001</td>
<td>Color change: Grade 4.0</td>
</tr>
<tr>
<td>Lightfastness</td>
<td>AATCC 16 OPTION 3</td>
<td>Color change: Light-Medium Dark</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.5 4.0</td>
</tr>
<tr>
<td>Colorfastness to Washing</td>
<td>AATCC 61/132</td>
<td></td>
</tr>
<tr>
<td>or Dry Cleaning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crocking</td>
<td>AATCC 8/116</td>
<td>Light-Medium Dark</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4.0 4.0</td>
</tr>
<tr>
<td>Spray Test</td>
<td>AATCC 22</td>
<td>90 (ISO4) 70 (ISO2)</td>
</tr>
<tr>
<td>-Original</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- After 3x launderings or 1 dry cleaning</td>
<td></td>
</tr>
<tr>
<td>Rain Test (U.S. Customs Test)</td>
<td>AATCC 35 (At 2 ft. 2 min.)</td>
<td>≤ 1.0 g</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>JIS L1041</td>
<td>75 ppm</td>
</tr>
<tr>
<td>PFOS (required only if sample declared with functional finishing - e.g. grease, stain and water repellent)</td>
<td>SGS Method, HPLC-MS analysis or Intertek Method-Determination of Perfluorinated Carbon (PFC) –C016.TP</td>
<td>Prohibited</td>
</tr>
<tr>
<td>Phthalates (accessible components) PVC, Synthetic leather, Soft Plastics</td>
<td>CPS-C-H-C100-09.3</td>
<td>Maximum. 0.1% (1000 ppm)</td>
</tr>
<tr>
<td>Stuffed Products Labeling</td>
<td>Canadian Upholstered &amp; stuffed articles Regulations</td>
<td>---Manufacturer must register in Manitoba, Ontario &amp; Quebec to obtain a registration number.</td>
</tr>
<tr>
<td>(if applicable)</td>
<td></td>
<td>---Sewn in label required listing filling material</td>
</tr>
</tbody>
</table>

**THE AGENT/ MANUFACTURER IS RESPONSIBLE TO ENSURE THAT THE REFERENCED STYLE CONFORMS TO ALL THE PERFORMANCE REQUIREMENTS LISTED ON THIS SPECIFICATION**

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## WOVEN APPAREL

### MAN-MADE FIBERS

### NPS-19

**Fiber Content:** Polyester, CVS, Rayon, Lyocell, Acetate, Triacetate, Nylon

**End Use:** Pants, Skirts, Blouses, Shirts, Dresses, Jackets

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability - all fabrics</td>
<td>16 CFR Part 1610</td>
<td>Class 1</td>
</tr>
<tr>
<td></td>
<td>CAN/CGB 4.2 No 27.5</td>
<td>---Plain Surface: 3.5 seconds or more</td>
</tr>
<tr>
<td></td>
<td></td>
<td>---Raised-Fiber Surface: 4 seconds or more</td>
</tr>
<tr>
<td>Fabric Weight</td>
<td>ASTM D3776</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Thread Count (warp x fill)</td>
<td>ASTM D3775</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Yarn Count (yarn size &amp; ply)</td>
<td>ASTM D1059, D1244</td>
<td>As specified ± 1 yarn size</td>
</tr>
<tr>
<td>Fiber Content</td>
<td>AATCC 20/20A</td>
<td>Single Fiber: No Tolerance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blended Fiber: ± 3%</td>
</tr>
<tr>
<td>Dimensional Stability</td>
<td>AATCC 135/150 after 3 launderings</td>
<td>Rayon</td>
</tr>
<tr>
<td>(follow care label)</td>
<td>AATCC 158 after 1 dry cleaning</td>
<td>All Others</td>
</tr>
<tr>
<td></td>
<td>Length and Width: 5% Max.</td>
<td>Length and Width: 3% Max.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Length and Width: 2% Max.</td>
</tr>
<tr>
<td>Appearance after Laundering/</td>
<td>Visual Inspection</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>Dry Cleaning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skew</td>
<td>Fabric-AATCC 179 Method 2</td>
<td>3% Maximum</td>
</tr>
<tr>
<td></td>
<td>Garment- AATCC TS-004(side seam)</td>
<td></td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D5034</td>
<td>&lt;68 g/m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td>68-135 g/m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt;135 g/m²</td>
</tr>
<tr>
<td></td>
<td>Tops: 15 lbs.</td>
<td>25 lbs.</td>
</tr>
<tr>
<td></td>
<td>25 lbs.</td>
<td>30 lbs.</td>
</tr>
<tr>
<td></td>
<td>Bottoms: 15 lbs.</td>
<td>25 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>35 lbs.</td>
</tr>
<tr>
<td>Tear Strength</td>
<td>ASTM D1424</td>
<td>&lt;68 g/m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt;68 g/m²</td>
</tr>
<tr>
<td></td>
<td>Tops: 15 lbs.</td>
<td>20 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.0 lbs.</td>
</tr>
<tr>
<td></td>
<td>Bottoms: 15 lbs.</td>
<td>2.0 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.5 lbs.</td>
</tr>
<tr>
<td>Seam Strength</td>
<td>ASTM D1683 using existing seams</td>
<td>30 lbs.</td>
</tr>
<tr>
<td>Seam Slippage</td>
<td>ASTM D1683 using existing seams</td>
<td>&lt;68 g/m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 lbs. @ ¼”</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt;68 g/m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 lbs. @ ¼”</td>
</tr>
<tr>
<td>Abrasion Resistance</td>
<td>ASTM D4966</td>
<td>Grade 4.0 after 20,000 cycles (tops)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Grade 4.0 after 30,000 cycles (bottoms)</td>
</tr>
<tr>
<td>Pilling Resistance</td>
<td>ASTM D4970</td>
<td>Grade 4.0 after 100 cycles</td>
</tr>
<tr>
<td>Perspiration</td>
<td>AATCC 15</td>
<td>Color change: Grade 4.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Staining: Grade 4.0</td>
</tr>
<tr>
<td>Colorfastness to Chlorine Bleach</td>
<td>AATCC TS-001</td>
<td>Color Change: Grade 4.0</td>
</tr>
<tr>
<td>Colorfastness to Non-Chlorine Bleach</td>
<td>AATCC TS-001</td>
<td>Color Change: Grade 4.0</td>
</tr>
<tr>
<td>Lightfastness</td>
<td>AATCC 16 OPTION 3</td>
<td>Light-Medium: 3.5</td>
</tr>
<tr>
<td>20 hours AFU exposure</td>
<td></td>
<td>Dark: 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>**Special: 4.0</td>
</tr>
<tr>
<td>UPF (if labeled):</td>
<td>AATCC 183</td>
<td>15-24 - Good UV Protection</td>
</tr>
<tr>
<td></td>
<td>ASTMD 6544</td>
<td>25-39 – Very Good UV Protection</td>
</tr>
<tr>
<td></td>
<td>ASTMD 6603- Labeling</td>
<td>40+ - Excellent UV Protection</td>
</tr>
<tr>
<td>Colorfastness to Washing</td>
<td></td>
<td>Light-Medium: 4.0</td>
</tr>
<tr>
<td>or Dry Cleaning</td>
<td>AATCC 61/132</td>
<td>Dark: 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>**Special: 4.0</td>
</tr>
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<td></td>
<td>Color Change: 4.0</td>
<td>Staining: 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4.0</td>
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<tr>
<td></td>
<td>Color Change: 4.0</td>
<td>Self-Staining: 4.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4.5</td>
</tr>
<tr>
<td>Crocking</td>
<td>AATCC 8/116</td>
<td>Light-Medium: 4.0</td>
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<tr>
<td></td>
<td></td>
<td>Dark: 3.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>**Special: 3.5</td>
</tr>
<tr>
<td>pH level</td>
<td>AATCC 81</td>
<td>pH 6-8</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>JIS L1041</td>
<td>75 ppm</td>
</tr>
<tr>
<td>PFOS (required only if sample</td>
<td>SGS Method, HPLC-MS analysis or Intertek Method-Determination of Perfluorinated Carbon (PFC) –C016.TP</td>
<td>Prohibited</td>
</tr>
<tr>
<td>declared with functional finishing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- e.g. grease, stain, water</td>
<td></td>
<td></td>
</tr>
<tr>
<td>repellent)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stuffed Products Labeling</td>
<td>Canadian Upholstered &amp; stuffed articles Regulations</td>
<td>Manufacturer must register in Manitoba, Ontario &amp; Quebec to obtain a registration number</td>
</tr>
<tr>
<td>(if applicable)</td>
<td></td>
<td>---Sewn in label required listing filling</td>
</tr>
<tr>
<td></td>
<td></td>
<td>material</td>
</tr>
</tbody>
</table>

**Indigo dye, sulfur dye, raised surface etc.**

---

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## WOVEN APPAREL

**NATURAL FIBERS**

**NPS-20**

**Fiber Content:** **Cotton, CVC Blends, Linen, and CV linen Blends,**

**End Use:** **Pants, Skirts, Blouses, Shirts, Dresses, Jackets**

### Performance Requirements

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability - all fabrics</td>
<td>16 CFR Part 1610</td>
<td>Class 1</td>
</tr>
<tr>
<td>Fabric Weight</td>
<td>ASTM D3776</td>
<td>As specified ±5%</td>
</tr>
<tr>
<td>Thread Count (warp/ft)</td>
<td>ASTM D3775</td>
<td>As specified ±5%</td>
</tr>
<tr>
<td>Yarn Count (yarn size &amp; ply)</td>
<td>ASTM D1059, D1244</td>
<td>As specified ±1 yarn size</td>
</tr>
<tr>
<td>Fiber Content</td>
<td>AATCC 20/20A</td>
<td>Single: No Tolerance</td>
</tr>
<tr>
<td>Dimensional Stability (follow care label)</td>
<td>AATCC 135/150 --after 3 launderings</td>
<td>Length &amp; Width (max.): 5%</td>
</tr>
<tr>
<td></td>
<td>AATCC 158 --after 1 dry cleaning</td>
<td>Linen: 4%</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All Others: 3%</td>
</tr>
<tr>
<td>Appearance after Laundering/ Dry Cleaning</td>
<td>Visual Inspection</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>Fabric Smoothness (WR fabrics)</td>
<td>AATCC 124</td>
<td>Grade 4.0 (after 20 Launderings)</td>
</tr>
<tr>
<td>Seam Pucker (WR Garment)</td>
<td>AATCC 88</td>
<td>Grade 3.0 (after 20 Launderings)</td>
</tr>
<tr>
<td>Crease Retention (WR Garment)</td>
<td>AATCC 143</td>
<td>Grade 3.0 (after 20 Launderings)</td>
</tr>
<tr>
<td>Skew</td>
<td>Fabric-AATCC 179 Method 2</td>
<td>3% Maximum</td>
</tr>
<tr>
<td></td>
<td>Garment-AATCC TS-004 (side seam)</td>
<td></td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D5034</td>
<td>&lt;68 g/m² - 68-135 g/m² - 135 g/m²</td>
</tr>
<tr>
<td></td>
<td>Tops: 15 lbs. 25 lbs. 30 lbs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bottoms: 15 lbs. 25 lbs. 35 lbs.</td>
<td></td>
</tr>
<tr>
<td>Tear Strength</td>
<td>ASTM D1424</td>
<td>≤68 g/m² - &gt;68 g/m²</td>
</tr>
<tr>
<td></td>
<td>Tops: 15 lbs. 25 lbs. 30 lbs.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bottoms: 15 lbs. 25 lbs. 35 lbs.</td>
<td></td>
</tr>
<tr>
<td>Seam Strength</td>
<td>ASTM D1683 using existing seams</td>
<td>30 lbs.</td>
</tr>
<tr>
<td>Seam Slippage</td>
<td>ASTM D1683 using existing seams</td>
<td>≤68 g/m²: 15 lbs. @ ¼&quot;</td>
</tr>
<tr>
<td></td>
<td>≥68 g/m²: 20 lbs. @ ¼”</td>
<td></td>
</tr>
<tr>
<td>Pile Retention (Corduroy only)</td>
<td>ASTM 4685</td>
<td>Face: Grade 4.0</td>
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<tr>
<td></td>
<td>Back: Grade 3.5</td>
<td></td>
</tr>
<tr>
<td>Abrasion Resistance</td>
<td>ASTM D4966</td>
<td>No yarn breakage after 20,000 cycles (tops)</td>
</tr>
<tr>
<td></td>
<td>No yarn breakage after 30,000 cycles (btms)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>No yarn breakage after 10,000 cycles (wrinkle resistant fabrics)</td>
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<tr>
<td>Pilling Resistance</td>
<td>ASTM D4970</td>
<td>Grade 4.0 after 100 cycles</td>
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<tr>
<td>Perspiration</td>
<td>AATCC 15</td>
<td>Color change: Grade 4.5</td>
</tr>
<tr>
<td></td>
<td>Staining: Grade 4.0</td>
<td></td>
</tr>
<tr>
<td>Colorfastness to Chlorine Bleach</td>
<td>AATCC TS-001</td>
<td>Color change: Grade 4.0</td>
</tr>
<tr>
<td>Colorfastness to Non-Chlorine Bleach</td>
<td>AATCC TS-001</td>
<td>Color change: Grade 4.0</td>
</tr>
<tr>
<td>Lightfastness (20 Hrs AFU exposure)</td>
<td>AATCC 16 OPTION 3</td>
<td>Color change: Light-Medium Dark Special Sulfur</td>
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<tr>
<td></td>
<td>Light-Medium: 4.0 4.0 4.0 3.0 3.0</td>
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</tr>
<tr>
<td></td>
<td>Dark: 4.0 4.0 4.0 3.0 3.0</td>
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<td></td>
<td>Special: 4.0 4.0 4.0 3.0 3.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sulfur: 4.0 4.0 4.0 3.0 3.0</td>
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</tr>
<tr>
<td>Colorfastness to Washing or Dry Cleaning</td>
<td>AATCC 61/132</td>
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</tr>
<tr>
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<td>Color change: 4.0 4.0 4.0 3.0 3.0</td>
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</tr>
<tr>
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<td>Staining: 4.0 4.0 4.0 3.0 3.0</td>
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</tr>
<tr>
<td></td>
<td>Self-Staining: 4.5 4.5 4.5 4.5 4.5</td>
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</tr>
<tr>
<td>Crocking</td>
<td>AATCC 8/116</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Light-Medium: 4.0 4.0 3.5 3.0 3.0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dark: 4.0 4.0 2.5 2.5 2.0</td>
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</tr>
<tr>
<td>pH level</td>
<td>AATCC 81</td>
<td>pH 6-8</td>
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<tr>
<td>Formaldehyde</td>
<td>JIS L1041</td>
<td>Prohibited</td>
</tr>
<tr>
<td></td>
<td>75 ppm</td>
<td></td>
</tr>
<tr>
<td>PFOS (required only if sample declared with functional finishing - e.g. grease, stain &amp; water repellent)</td>
<td>SGS Method, HPLC-MS analysis or Intertek Method-Determination of Perfluorinated Carbon (PFC)C016.TP</td>
<td>Prohibited</td>
</tr>
<tr>
<td>Stuffed Products Labeling (if applicable)</td>
<td>Canadian Upholstered &amp; stuffed articles Regulations</td>
<td>---Manufacturer must register in Manitoba, Ontario &amp; Quebec to obtain a registration number ---Sewn in label required listing filling material</td>
</tr>
</tbody>
</table>

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## WOVEN APPAREL

### SWIMWEAR/ SWIMWEAR COVERUPS

**NPS-21**  
*Fiber Content: Predominantly Cotton, Polyester, Nylon*  
*End Use: Swim Trunks, Bathing Suits, Swim cover-ups*

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability - all fabrics</td>
<td>16 CFR Part 1610</td>
<td>Class 1</td>
</tr>
<tr>
<td></td>
<td>CAN/CGSB 4.2 No 27.5</td>
<td>---Plain Surface: 3.5 seconds or more</td>
</tr>
<tr>
<td></td>
<td></td>
<td>---Raised-Fiber Surface: 4 seconds or more</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&amp; exhibit ignition or fusion of its base fibers.</td>
</tr>
<tr>
<td>Fabric Weight</td>
<td>ASTM D3776</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Thread Count (warp/fill)</td>
<td>ASTM D3775</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Yarn Count (yarn size &amp; ply)</td>
<td>ASTM D1059, D1244</td>
<td>As specified ± 1 yarn size</td>
</tr>
<tr>
<td>Fiber Content</td>
<td>AATCC 20/20A</td>
<td>Single Fiber: No Tolerance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blended Fiber: ± 3%</td>
</tr>
<tr>
<td>Dimensional Stability (follow care label)</td>
<td>AATCC 135/150 ---after 3 launderings</td>
<td>Length and Width: 3% Maximum</td>
</tr>
<tr>
<td>Appearance after Laundering</td>
<td>Visual Inspection</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>Skew</td>
<td>Fabric-AATCC 179 Method 2</td>
<td>3% Maximum</td>
</tr>
<tr>
<td></td>
<td>Garment-AATCC TS 004 (side seam)</td>
<td></td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D5034</td>
<td>&lt;68 g/m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td>68-135 g/m²</td>
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<tr>
<td></td>
<td></td>
<td>&gt;135 g/m²</td>
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<tr>
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<td></td>
<td>Top: 15 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25 lbs.</td>
</tr>
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<td>30 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bottom: 15 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>25 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>35 lbs.</td>
</tr>
<tr>
<td>Tear Strength</td>
<td>ASTM D1424</td>
<td>&lt; 68 g/m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt;68 g/m²</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Top: 1.5 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.0 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bottom: 1.5 lbs.</td>
</tr>
<tr>
<td>Seam Strength</td>
<td>ASTM D1683 using existing seams</td>
<td>35 lbs.</td>
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<tr>
<td>Seam Slippage</td>
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<td>20 lbs. @ 1/4”</td>
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<td>Abrasion Resistance</td>
<td>ASTM D4966</td>
<td>Grade 4.0 after 30,000 cycles</td>
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<tr>
<td>Pilling Resistance</td>
<td>ASTM D4970</td>
<td>Grade 4.0 after 100 cycles</td>
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<tr>
<td>Perspiration</td>
<td>AATCC 15</td>
<td>Color change: Grade 4.5</td>
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<td>Staining: Grade 4.0</td>
</tr>
<tr>
<td>Colorfastness to Chlorine Bleach</td>
<td>AATCC TS-001</td>
<td>Color Change: Grade 4.0</td>
</tr>
<tr>
<td>Colorfastness to Non-Chlorine Bleach</td>
<td>AATCC TS-001</td>
<td>Color change: Grade 4.0</td>
</tr>
<tr>
<td>Colorfastness to Sea Water</td>
<td>AATCC 106</td>
<td>Color change: Neons 2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dark 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Staining: 3.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.5</td>
</tr>
<tr>
<td>Colorfastness to Chlorinated Pool Water</td>
<td>AATCC 162</td>
<td>Color change: Neons 2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All Others 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lightfastness</td>
<td>AATCC 16 OPTION 3</td>
<td>Neons Light-Medium 2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colorfastness to Washing or Dry Cleaning</td>
<td>AATCC 61/132</td>
<td>Neons/Light-Medium 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dark 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Color Change: 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Staining: 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Self-Staining: 4.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4.5</td>
</tr>
<tr>
<td>Crocking</td>
<td>AATCC 8/116</td>
<td>Neons/Light-Medium 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dark 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dry: 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wet: 3.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2.5</td>
</tr>
<tr>
<td>pH level</td>
<td>AATCC 81</td>
<td>pH 6-8</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>JIS L1041</td>
<td>75 ppm</td>
</tr>
<tr>
<td>PFOS (required only if sample declared</td>
<td>SGS Method, HPLC-MS analysis or Intertek Method-</td>
<td>Prohibited</td>
</tr>
<tr>
<td>with functional finishing - e.g. grease,</td>
<td>Determination of Perfluorinated Carbon (PFC) –</td>
<td></td>
</tr>
<tr>
<td>stain and water repellent)</td>
<td>C016.TP</td>
<td></td>
</tr>
<tr>
<td>Stuffed Products Labeling</td>
<td>Canadian Upholstered &amp; stuffed articles Regulations</td>
<td>Manufacturer must register in Manitoba, Ontario &amp; Quebec to obtain a registration number</td>
</tr>
<tr>
<td></td>
<td></td>
<td>filling material</td>
</tr>
</tbody>
</table>

**THE AGENT/ MANUFACTURER IS RESPONSIBLE TO ENSURE THAT THE REFERENCED STYLE CONFORMS TO ALL THE PERFORMANCE REQUIREMENTS LISTED ON THIS SPECIFICATION**

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## WOVEN APPAREL

### SYNTHETIC LINING FABRICS

**NPS-22**

**Fiber Content:** Polyester, CVS, Rayon, Acetate, Nylon  
**End Use:** Pants, Skirts, Blouses, Shirts, Dresses, Jackets, Coats

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability - all fabrics</td>
<td>16 CFR Part 1610</td>
<td>Class 1</td>
</tr>
<tr>
<td></td>
<td>CAN/CGSB 4.2 No 27.5</td>
<td>---Plain Surface: 3.5 seconds or more</td>
</tr>
<tr>
<td></td>
<td></td>
<td>---Raised-Fiber Surface: 4 seconds or more &amp; exhibit ignition or fusion of its base fibers.</td>
</tr>
<tr>
<td>Fabric Weight</td>
<td>ASTM D3776</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Thread Count (warp x fill)</td>
<td>ASTM D3775</td>
<td>As specified ± 5%</td>
</tr>
<tr>
<td>Yarn Count (yarn size &amp; ply)</td>
<td>ASTM D1059, D1244</td>
<td>As specified ± 1 yarn size</td>
</tr>
<tr>
<td>Fiber Content</td>
<td>AATCC 20/20A</td>
<td>Single Fiber: No Tolerance</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Blended Fiber: ± 3%</td>
</tr>
<tr>
<td>Dimensional Stability</td>
<td>Following Care Label</td>
<td>Rayon Length and Width: 5% Max.</td>
</tr>
<tr>
<td>-After three home launderings</td>
<td>AATCC 135/150</td>
<td>All Others Length and Width: 3% Max.</td>
</tr>
<tr>
<td>-After one dry cleaning</td>
<td>AATCC 158</td>
<td></td>
</tr>
<tr>
<td>Appearance after Laundering/Dry</td>
<td>Visual Inspection</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>Cleaning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Skew</td>
<td>Fabric-AATCC 179 Method 2</td>
<td>3% Maximum</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D5034</td>
<td>Warp and Fill: 25 lbs.</td>
</tr>
<tr>
<td>Tear Strength</td>
<td>ASTM D1424</td>
<td>Warp and Fill: Acetate 1.5 lbs.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>All others 1.8 lbs.</td>
</tr>
<tr>
<td>Seam Strength</td>
<td>ASTM D1683</td>
<td>30 lbs.</td>
</tr>
<tr>
<td>using existing seams</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Seam Slippage</td>
<td>ASTM D1683</td>
<td>20 lbs. @ 1/4&quot;</td>
</tr>
<tr>
<td>using existing seams</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abrasion Resistance</td>
<td>ASTM D3886</td>
<td>Grade 3.0 After 300 Cycles</td>
</tr>
<tr>
<td>Pilling Resistance</td>
<td>ASTM D4970</td>
<td>Grade 4.0 After 100 Cycles</td>
</tr>
<tr>
<td>Perspiration</td>
<td>AATCC 15</td>
<td>Color change: Grade 4.5</td>
</tr>
<tr>
<td>Colorfastness to Chlorine Bleach</td>
<td>AATCC TS-001</td>
<td>Staining: Grade 4.0</td>
</tr>
<tr>
<td>Colorfastness to Non-Chlorine Bleach</td>
<td>AATCC TS-001</td>
<td>Color change: Grade 4.0</td>
</tr>
<tr>
<td>Lightfastness 20 hours AFU exposure</td>
<td>AATCC 16 OPTION 3</td>
<td>Color change: Grade 4.0</td>
</tr>
<tr>
<td>Colorfastness to Washing or Dry</td>
<td>AATCC 61/132</td>
<td>Light-Medium <strong>Special</strong></td>
</tr>
<tr>
<td>Cleaning</td>
<td></td>
<td>Color Change: 4.0 4.0 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Staining: 4.0 4.0 3.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Self-Staining: 4.5 4.5 4.5</td>
</tr>
<tr>
<td>Crocking</td>
<td>AATCC 8/116</td>
<td>Light-Medium <strong>Special</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dry: 4.0 4.0 3.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wet: 3.0 2.5 2.5</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>JIS L1041</td>
<td>75 ppm</td>
</tr>
</tbody>
</table>

**Indigo dye, sulfur dye, raised surface etc.**

---

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# LEATHER AND SUEDE APPAREL

**NPS-24**

*Content: Leather, Suede,  
*End Use: Coats, Jackets, Vests, Dresses, Skirts, Pants*

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammability</td>
<td>16 CFR Part 1610</td>
<td>Class 1</td>
</tr>
<tr>
<td>Leather Identification</td>
<td>Microscopic</td>
<td>Confirm Species of Leather</td>
</tr>
<tr>
<td>Leather Thickness</td>
<td>ASTM D1814</td>
<td>As specified</td>
</tr>
<tr>
<td>Lead in Surface Coating (painted and</td>
<td>16 CFR 1500.3</td>
<td>0.009% (90 ppm) Maximum</td>
</tr>
<tr>
<td>coated products)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Appearance after Leather Cleaning</strong></td>
<td>Visual Inspection</td>
<td>Color Change: Grade 3.0</td>
</tr>
<tr>
<td><strong>Dimensional Stability</strong></td>
<td>Follow care label AATCC 135/150</td>
<td>Self-Staining: Grade 4.5</td>
</tr>
<tr>
<td>(Washable Suede/Leather)</td>
<td></td>
<td>General Appearance: Satisfactory</td>
</tr>
<tr>
<td><strong>Appearance after Laundering</strong></td>
<td>Visual Inspection</td>
<td></td>
</tr>
<tr>
<td>(Washable Suede/Leather)</td>
<td></td>
<td>Satisfactory</td>
</tr>
<tr>
<td><strong>Spewing</strong></td>
<td>48 hours. @ 50°C/ 90% Relative Humidity Then 6 hours @ -20°C</td>
<td>No Spewing Evident</td>
</tr>
<tr>
<td>Leather or Suede and Metal Hardware</td>
<td>48 hours. @ 50°C/ 90% Relative Humidity</td>
<td>No Surface Change of metal components</td>
</tr>
<tr>
<td>Compatibility</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Tensile Strength</strong></td>
<td>ASTM D5034</td>
<td>Length and Width: 5% maximum</td>
</tr>
<tr>
<td>(Leather Only)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Seam Strength</strong></td>
<td>ASTM D1683</td>
<td>Length and Width: 40 lbs. average</td>
</tr>
<tr>
<td><strong>Crocking</strong></td>
<td>AATCC 8-116</td>
<td>Leather and Suede:</td>
</tr>
<tr>
<td>(Leather, Suede and Lining)</td>
<td></td>
<td>Dry: Grade 3.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Wet: Grade 1.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lining:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Light-Medium: 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dark: 4.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Special: 3.5</td>
</tr>
<tr>
<td><strong>Perspiration</strong></td>
<td>AATCC 15</td>
<td>Color change: Grade 4.5</td>
</tr>
<tr>
<td>(Lining only)</td>
<td></td>
<td>Staining: Grade 4.5</td>
</tr>
<tr>
<td><strong>Lightfastness</strong></td>
<td>AATCC 16 OPTION 3</td>
<td>Color change: Light-Medium: 3.5</td>
</tr>
<tr>
<td>(20 hours AFU exposure)</td>
<td></td>
<td>Dark: 4.0</td>
</tr>
<tr>
<td><strong>PFOS</strong> (required only if sample</td>
<td>SGS Method, HPLC-MS analysis or Intertek Method-Determination of Perfluorinated Carbon (PFC) – C016.TP</td>
<td>Prohibited</td>
</tr>
<tr>
<td>declared with functional finishing -</td>
<td></td>
<td></td>
</tr>
<tr>
<td>e.g. grease, stain and water repellent)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Stuffed Products Labeling</strong></td>
<td>Canadian Upholstered &amp; stuffed articles Regulations</td>
<td>---Manufacturer must register in Manitoba,</td>
</tr>
<tr>
<td>(if applicable)</td>
<td></td>
<td>Ontario &amp; Quebec to obtain a registration number</td>
</tr>
<tr>
<td></td>
<td></td>
<td>---Sewn in label required listing filling material</td>
</tr>
</tbody>
</table>

**If a test for “Appearance after Leather Cleaning” is desired, one full garment is to be sent to NPG QA in Seattle.**

---

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## TRIM AND FINDINGS

**NPS-25**

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Interfacing</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| - Shrinkage | ASTM D2724 | - Compatible with body fabric  
  - No bubbling, fraying, pilling, delamination or fugitive dye noted.  
  - 2.0 oz./inch minimum (length & width)  
  - No visible adhesive on the garment face |
| - Appearance Retention | ASTM D2724 | |
| - Bond Strength | ASTM D2724 | |
| - Adhesive Strike Through | Visual Assessment | |
| **Pocketing** | | |
| - Shrinkage | AATCC 135 or 150 or 158 | Machine Wash (3x): 3% Maximum  
  Dry Clean (1x): 2% Maximum  
  50 lbs. (warp and fill)  
  3.0 lbs. (warp & fill)  
  30 lbs.  
  25 Lbs. @ 1/4"  
  Dry - Grade 4.0  
  Wet - Grade 3.0 |
| - Tensile Strength (woven’s) | ASTM D5034 | |
| - Tear Strength (woven’s) | ASTM D1424 | |
| - Bursting Strength (knits) | ASTM D3786 | |
| - Seam Slippage (woven’s) | ASTM D434 | |
| - Crocking (colored pocketing) | AATCC 8 or 116 | |
| **Elastic** | | ± 7% relaxed  
  Vendors Spec ±10%  
  Dry and Wet: Grade 4.0  
  Color Change: Grade 4.0  
  Staining: Grade 4.0  
  Self-Staining: Grade 5.0 |
| - Shrinkage | AATCC 135 or 150 | |
| - Stretch | ASTM D5278 | |
| - Crocking (Colored) | AATCC 8 or 116 | |
| - Colorfastness to Washing | AATCC 61, 2A | |
| **Shoulder Pads** | | |
| A. Fiberfill and Other  
  - Appearance and Shape Retention | 25 Washings or 10 dry cleanings | Retain original size, shape, fiber distribution and color  
  Manufactured without ozone-depleting (HCFCs & CFCs) components |
| B. Foams  
  - Appearance and Shape Retention | 25 Washings or 10 dry cleanings | |
| - Manufactured Spec | | |
| **Shoulder Tape** | | |
| (Braid tape, Twill tape)  
  - Shrinkage | AATCC 135 or 150 | Compatible with body fabric  
  15 Lbs.  
  Color Change: Grade 4.0  
  Staining: Grade 4.0  
  Self-Staining: Grade 5.0 |
| - Tensile Strength | ASTM D5034 | |
| - Colorfastness to Laundering or Dry Cleaning | AATCC 61 or 150 | |
| **Thread** | | |
| Monofilament thread is not allowed in Nordstrom garments | | |
| - Shrinkage | ASTM D204 | Compatible with Body Fabric  
  Color Change: Grade 4.0  
  Self-Staining: Grade 5.0 |
| - Colorfastness to Laundering or Dry Cleaning | AATCC 61 or 150 | |
## TRIM AND FINDINGS

### NPS-25

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Decorations and Embellishments</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Applied trim (lace, rickrack, Faux leather, PVC, soft plastics) Embroidery and Applique</td>
<td></td>
<td>---Manufacturer must register in Manitoba, Ontario &amp; Quebec to obtain a registration number ---Sewn in label required listing filling material</td>
</tr>
<tr>
<td>- Stuffed Products Labeling (if applicable)</td>
<td>Canadian Upholstered &amp; stuffed articles Regulations</td>
<td></td>
</tr>
<tr>
<td>- Shrinkage</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Colorfastness to laundering or Dry Cleaning</td>
<td>AATCC 150/158</td>
<td>Same as body fabric</td>
</tr>
<tr>
<td>- Appearance after laundering or Dry Cleaning</td>
<td>AATCC 61 or 150</td>
<td>Color Change: Grade 4.0</td>
</tr>
<tr>
<td>- Lead Content (Painted or Colored)</td>
<td>Visual Assessment</td>
<td>Self-Staining: Grade 5.0</td>
</tr>
<tr>
<td>- Phthalates - Synthetic leather, PVC, PU, soft plastics</td>
<td>16 CFR 1500.3</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>B. Beads and Sequins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Colorfastness to laundering or Dry Cleaning</td>
<td>AATCC 61 or 150</td>
<td>Color Change: Grade 4.0</td>
</tr>
<tr>
<td>- Appearance after laundering or Dry Cleaning</td>
<td>Visual Assessment</td>
<td>Self-Staining: Grade 5.0</td>
</tr>
<tr>
<td>- Lead Content (Painted or Colored)</td>
<td>16 CFR 1500.3</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>C. Screen Prints</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Colorfastness to laundering or Dry Cleaning</td>
<td>16 CFR 1500.3</td>
<td>Color Change: Grade 4.0</td>
</tr>
<tr>
<td>- Appearance after laundering or Dry Cleaning</td>
<td>AATCC 61 or 150</td>
<td>Self-Staining: Grade 5.0</td>
</tr>
<tr>
<td>- Crocking</td>
<td>Visual Assessment</td>
<td>Satisfactory - no cracking or peeling evident</td>
</tr>
<tr>
<td>- Lead Content (Painted or Colored)</td>
<td>AATCC 8 or 116</td>
<td>Dry: Grade 3.5</td>
</tr>
<tr>
<td></td>
<td>16 CFR 1500.3</td>
<td>Wet: Grade 2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>90 ppm (0.009%) Maximum</td>
</tr>
<tr>
<td><strong>Snaps</strong></td>
<td>No test Method</td>
<td>All Components are to be attached using the automated equipment from the fastener manufacturer</td>
</tr>
<tr>
<td>- Manufacturing spec</td>
<td></td>
<td>15 lbs. Minimum at 10 seconds</td>
</tr>
<tr>
<td>- Attachment Strength</td>
<td>ASTM D7142</td>
<td>8 lbs. ± 2 maximum</td>
</tr>
<tr>
<td>- Snap Together</td>
<td>ASTM D4846</td>
<td>4 lbs. ± 2 minimum</td>
</tr>
<tr>
<td>- Snap Apart</td>
<td>ASTM D4846</td>
<td>90 ppm (0.009%) Maximum</td>
</tr>
<tr>
<td>- Lead Content (Painted/Colored)</td>
<td>16 CFR 1500.3</td>
<td>Satisfactory - No paint chipping or rusting</td>
</tr>
<tr>
<td>- Appearance after laundering or Dry Cleaning</td>
<td>Visual Inspection</td>
<td></td>
</tr>
<tr>
<td><strong>Zippers</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Cross Chain Pull</td>
<td>ASTM D2061</td>
<td>60 lbs.</td>
</tr>
<tr>
<td>- Top/Bottom Stop Holding</td>
<td>ASTM D2061</td>
<td>15 lbs.</td>
</tr>
<tr>
<td>- Slider Pull</td>
<td>ASTM D2061</td>
<td>15 lbs.</td>
</tr>
<tr>
<td>- Lead Content (Painted or Colored)</td>
<td>16 CFR 1500.3</td>
<td>90 ppm (0.009%) Maximum</td>
</tr>
<tr>
<td>- Appearance after laundering or Dry Cleaning</td>
<td>Visual Inspection</td>
<td>Satisfactory - No paint chipping or rusting</td>
</tr>
</tbody>
</table>

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### TRIM AND FINDINGS

**NPS-25**

<table>
<thead>
<tr>
<th>Test</th>
<th>Test Method</th>
<th>Performance Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Draw cords</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Shrinkage</td>
<td>AATCC 135</td>
<td>±10%</td>
</tr>
<tr>
<td>- Tensile Strength</td>
<td>ASTM D5034</td>
<td>50 lbs. Minimum</td>
</tr>
<tr>
<td>- Colorfastness to laundering or Dry Cleaning</td>
<td>AATCC 61 or 150 or 158</td>
<td>Color Change: Grade 4.0</td>
</tr>
<tr>
<td>- Appearance after laundering or Dry Cleaning</td>
<td>Visual Inspection</td>
<td>Self-Staining: Grade 5.0</td>
</tr>
<tr>
<td><strong>Buttons</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Attachment Strength</td>
<td>ASTM D7142 Mod</td>
<td>15 lbs. Minimum</td>
</tr>
<tr>
<td>- Lead Content (Painted or Colored)</td>
<td>16 CFR 1500.3</td>
<td>0.009% (90 ppm) Maximum</td>
</tr>
<tr>
<td>- Colorfastness to laundering</td>
<td>AATCC 61 or 150</td>
<td>Color Change: 4.0 Self-staining 5.0</td>
</tr>
<tr>
<td>- Effects of Dry Cleaning</td>
<td>ASTM D6840</td>
<td>No appreciable change</td>
</tr>
<tr>
<td>- Sublimation (dyed buttons)</td>
<td>Emsig Method</td>
<td>Pass - no staining evident</td>
</tr>
<tr>
<td>- Appearance after laundering or Dry Cleaning</td>
<td>Visual Inspection</td>
<td>Satisfactory - No rusting or breakage</td>
</tr>
<tr>
<td>- Impact Resistance (plastic buttons)</td>
<td>ASTM D5171</td>
<td>Pass (no breakage of any button allowed)</td>
</tr>
<tr>
<td><strong>Metal and Plastic Hardware</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Attachment Strength</td>
<td>ASTM D7142 Mod</td>
<td>15 lbs. Minimum</td>
</tr>
<tr>
<td>- Lead Content (Painted or Colored)</td>
<td>16 CFR 1500.3</td>
<td>90 ppm (0.009%) Maximum</td>
</tr>
<tr>
<td>- Colorfastness to laundering or Dry Cleaning</td>
<td>AATCC 61 or 150</td>
<td>Color Change: Grade 4.0</td>
</tr>
<tr>
<td>- Appearance after laundering or Dry Cleaning</td>
<td>Visual Inspection</td>
<td>Self-Staining: Grade 5.0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Satisfactory - No rusting, breaking, chipping or corrosion</td>
</tr>
</tbody>
</table>

THE AGENT/ MANUFACTURER IS RESPONSIBLE TO ENSURE THAT THE REFERENCED STYLE CONFORMS TO ALL THE PERFORMANCE REQUIREMENTS LISTED ON THIS SPECIFICATION.