



**DENIM JEANS - ADULT**

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 Created by: Legal Dept.

TEST DESCRIPTION	REGULATION/TEST METHOD	REQUIREMENTS									
<b>MANDATORY</b>											
<b>Sew-in Label Verification</b> - Fiber Content - Country of Origin - Care Instructions - Registration Number (RN) or Wool products Registration Number (WPL)	FTC Textile Fiber ID Act 16 CFR 303 16 CFR 300 19 CFR 134	Must Comply									
Fiber Content	AATCC 20/20A	Single fiber ± 0.0% Blends ± 3.0%									
Wearing Apparel Flammability	16 CFR Parts 1610	Shall meet Class 1 requirements									
Dimensional Stability to Laundering - Woven	AATCC 150	<table border="0"> <tr> <td></td> <td>% Length</td> <td>% Width</td> </tr> <tr> <td>Basic - Natural</td> <td>5 X</td> <td>5</td> </tr> <tr> <td>Basic - Synthetic</td> <td>3 X</td> <td>3</td> </tr> </table>		% Length	% Width	Basic - Natural	5 X	5	Basic - Synthetic	3 X	3
	% Length	% Width									
Basic - Natural	5 X	5									
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General Appearance After Laundering 3 Home Launderings	Visual Evaluation	<ul style="list-style-type: none"> <li>- No open raveling, open seams, or tufting damage.</li> <li>- No obvious defects/observations affecting the end product performance/appearance.</li> <li>- Shade Change: Grade 4</li> <li>- Self staining: Grade 5</li> <li>- List all observations</li> </ul>									
Colorfastness to Chlorine Bleach	AATCC TS-001	Grade 4									
Colorfastness to Non-Chlorine Bleach	AATCC TS-001	Grade 4									
Colorfastness to Crocking	AATCC 8/116	Dry: Grade 4 minimum Wet: Grade 3 minimum									
<b>STATES REGULATIONS</b>											
Total heavy metals in packaging	Toxics in Packaging Clearinghouse (TPCH)	Packaging shall not contain the sum of mercury, cadmium, lead and chromium (VI) in concentration above 0.01% by weight.									
Plastic Bag Warnings	Various state laws	Plastic bags with a thickness of less than 1 mil (0.001 inch) having an opened end larger than 5 inches in diameter shall contain the following warning statement or equivalent: <b>WARNING: To avoid danger of suffocation, keep this plastic bag away from babies and children. Do not use this bag in cribs, beds, carriages or playpens. This bag is not a toy.</b>									
California Prop 65	Warning label or applicable testing	In lieu of warning label, product should meet all applicable Prop 65 requirements.									
<b>NON- MANDATORY (QUALITY &amp; PERFORMANCE)</b>											
Thread Count	ASTM D3775	Thread Count									
Weight	ASTM D3776	As Specified (+/- 5%)									
Yarn Size	ASTM D1059	As Specified (+/- 10%)									
Formaldehyde (Spot Test)	AATCC 94	No Trace If trace is found - proceed with full testing									
Formaldehyde	JIS 1041 LAW 112	<75 ppm									
pH of Water Extract	pH of Water Extract	Whites: 5.5 - 6.5, Others: 6 - 8									



Colorfastness to Perspiration	AATCC 15	Shade Change: Grade 4 minimum Staining: Grade 3 minimum
Colorfastness to Light	AATCC 16 Option 3 40 hours	Step 4
Tensile Strength	ASTM D5034	40 x 30 lbs. (warp x weft)
Tear Strength	ASTM D1424	3.0 x 2.5 lbs. (warp x weft)
Seam Strength	ASTM D 1683	All Seams: 30 lbs. Minimum Bartacks and reinforcements: 20 lbs. Min
Pilling Resistance Martindale Pilling Method 100 Movements	ASTM D4970	Grade 3.5 Min. after 100 movements.
Attachment Strength Snaps Buttons, Shanks, Rivets, etc. Hand-Sewn Beads, Sequins, etc.	ASTM D7142 Opt. 2 16 CFR 1500.50-53 16 CFR 1500.50-53	15 lb. / 10 sec. 15 lb. / 10 sec. 5 lb. / 10 sec
Zipper Operability (open/close)	ASTM D2062	3 lb. maximum