

**DENIM JEANS - ADULT**

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 (3x)	AATCC 150	<table border="0"> <tr> <td></td> <td colspan="3" style="text-align: center;">% Length % Width</td> </tr> <tr> <td>Basic - Natural</td> <td>5</td> <td>X</td> <td>5</td> </tr> <tr> <td>Basic - Synthetic</td> <td>3</td> <td>X</td> <td>3</td> </tr> </table>		% Length % Width			Basic - Natural	5	X	5	Basic - Synthetic	3	X	3
	% Length % Width													
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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 Laundering	AATCC 61	Shade Change: Grade 4 minimum Staining: Grade 3 minimum - Self –Staining: Grade 5/ No Self Staining												
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												
Pentachlorothiophenol (PCTP)	Environmental Protection Agency, 86 FR 894, Final Rule, 40 CFR Part 751, Subpart E	≤ 1 % (10000 mg/kg)												
Hexachlorobutadiene (HCBd)	Environmental Protection Agency, 86 FR 894, Final Rule, 40 CFR Part 751, Subpart E	Prohibited												
<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. Sum of Phthalates: ≤ 100 mg/kg PFAS: Not detected												

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.
Flame Retardants	Various state laws	Products claimed with flame retardant treatment shall meet all applicable requirements.
Chemicals of High Concern for Children / Priority Chemicals	Various US States Law	Record the concentration of Chemicals of High Concern for Children / Priority Chemicals. No pass / fail verdict.
<b>NON- MANDATORY (QUALITY &amp; PERFORMANCE)</b>		
Thread Count	ASTM D3775	As Specified (+/- 5%)
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 ISO 14184-1 (textile) ISO 17226-1 (leather)	< 75 ppm -Direct skin contact: 75 mg/kg -Without direct skin contact: 300 mg/kg
pH of Water Extract	pH of Water Extract AATCC TM81 (textile) ASTM D2810 (leather)	Textile: 4.0-8.0 Leather: 3.5-7.5
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
Colorfastness to Ozone (for indigo)	AATCC 109	Grade 4 min. after 2 cycles
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