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ACTIVE / SWIMWEAR PROTOCOL - ADULT

TEST DESCRIPTION	REGULATION/TEST METHOD	REQUIREMENTS
MANDATORY		
Sew-in Label Verification - 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 \pm 0.0% Blends \pm 3.0%
Wearing Apparel Flammability	16 CFR Parts 1610	Shall meet Class 1 requirements
Dimensional Stability to Laundering - Woven	AATCC 150	% Length % Width Basic - Natural 5 X 5 Basic - Synthetic 3 X 3
Dimensional Stability to Laundering - Knits	AATCC 150	% Length % Width 5 X 7
Dimensional Stability to Dry Cleaning	AATCC 158	% Length % Width 3 X 3
Colorfastness to Laundering/ Dry Cleaning	AATCC 107	Shade Change: Grade 4 minimum Staining: Grade 3 minimum Self -Staining: Grade 5/ No Self Staining
General Appearance After Laundering 3 Home Launderings	Visual Evaluation	- No open raveling, open seams, or tufting damage. - No obvious defects/observations affecting the end product performance/appearance. - Color Change: Grade 4 - Self staining: Grade 4 - List all observations
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
STATES REGULATIONS		
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: 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.
California Prop 65	Warning label or applicable testing	In lieu of warning label, product should meet all applicable Prop 65 requirements.
OPTION (QUALITY & PERFORMANCE)		
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	Adult<75 ppm
pH of Water Extract	pH of Water Extract	Whites: 5.5 - 6.5, Others: 6 - 8
Colorfastness to Light	AATCC 16 Option 3 40 hours	Step 4
Colorfastness to Pool Water (Swimwear)	AATCC - 162	Shade Change: Grade 4 minimum Staining: Grade 3 minimum Self -Staining: Grade 5/ No Self Staining
Colorfastness to Sea Water (Swimwear)	AATCC - 106	Shade Change: Grade 4 minimum Staining: Grade 3 minimum Self -Staining: Grade 5/ No Self Staining
Torque (Knits only)	AATCC 179 Method 2, Option 3	5.0% Max
Tensile Strength (Wovens)	ASTM D5034	40 x 30 lbs. (warp x weft)
Tear Strength (Wovens)	ASTM D1424	3.0 x 2.5 lbs. (warp x weft)
Bursting Strength (Knits)	ASTM D 3786	50 PSI
Seam Strength	ASTM D 1683	All Seams: 30 lbs. Minimum Bartacks and reinforcements: 20 lbs. Min
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