

Sauquoit Industries Inc

Advanced Material Development Lab: Test Report

Requested By: Steve Jacobson

Customer: Carolina Textiles, LLC / Earth FX

Date: 03/05/07

Sample Description: Carolina Textiles polycotton/silver fabric

Objective / Scope of Test: To check silver ion release data for anti-microbial activity before and after 100 wash cycles.

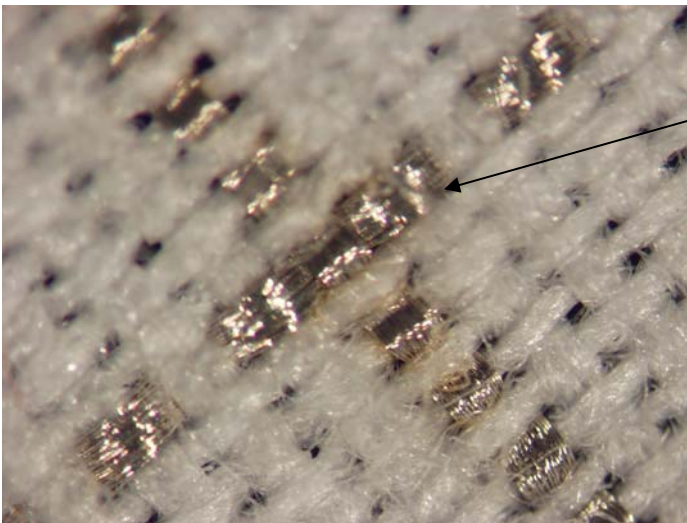
Type of Instrument: Atomic Absorption Spectrophotometer.

Test Method: XSN-PRO-RDL-1025 Procedure to determine Silver ion release
XSN-PRO-RDL-1150 Procedure to determine different metals by atomic absorption spectroscopy (General)
XSN-PRO-RDL-1500 Procedure for Washability Test using Launder-Ometer
XSN-PRO-RDL-1300 Procedure for Microscopy
XSN-PRO-RDL-1200 Procedure for Anti Static Capability

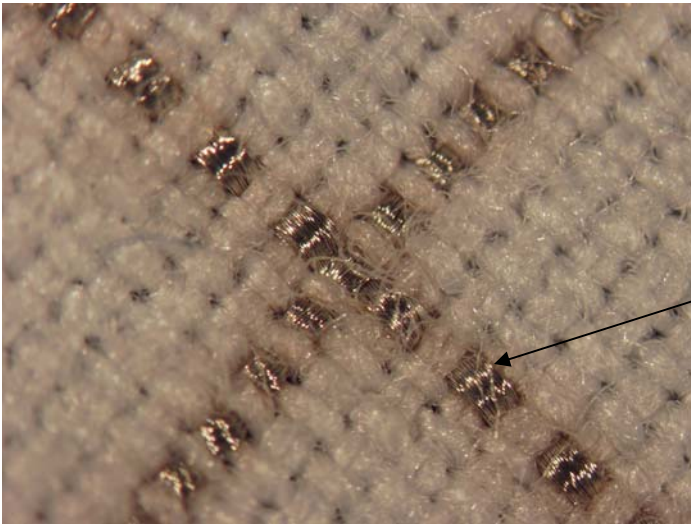
Log Number: S-238-07

Test Report:

Sample ID	Silver Ion Release (1hrs)	Silver Ion Release (24 hrs)
70D 2 Ply- Unwashed	3.156	2.857
70D 2 Ply- 100 Washes	3.010	3.865



Silver yarn



Silver Yarn

Wash Test Data:

Sample	Resistance (ohms/ square) after number of washes					
	0	10	25	50	75	100
70D 2 PLY	5-10	5-10	5-10	5-10	5-10	8-25

Conclusion(s):

- Silver ion release data suggests that sample before and after wash test is antimicrobial effective.
- Wash Test data suggests consistency in resistance reading before, during and after wash cycles.
- Pictures of fabric before and after 100 wash cycles confirms good silver adhesion to the substrate.

Performed by: Vinesh Naik, Manager, Advanced Material Development
Approved by: Satish Chandra, V.P. Technology and New Business.