



Certificate of Conformance

This certification is provided as full assurance that the following product code and lot number were manufactured in accordance via a Quality System certified to ISO 9001 with prescribed procedures and specifications.

Product Code:	TSWC0917
Lot Number:	1033774JIF056263

The nonwoven fabric used as the wiper substrate in this product conforms to the current requirements and revisions of Aerospace Material Specification AMS 3819C Class2, Grade A, to Boeing Material Specification BMS 15-5 and to Douglas Material Specification DMS 1820-1.

A handwritten signature in black ink, appearing to read "C. Duffee".

QC Supervisor
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Thursday, December 12, 2019

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DID: 6241C

Date: 04/16/2019

CERTIFICATE OF ANALYSIS
AMS 3819C
Nonwovens' Cloth K802 Sontara, Lot No:1033774

Reported below are qualification test results for Class 2, Grade A cleaning cloth to be compared with the requirements of AMS 3819C.

1. Cleanliness: Section 3.5
Fabric visually examined and found to be free of metal chips and other contaminations.
2. Workmanship: Section 3.6.2
Wiper shall be free of detectable silicone greases and oils when tested in accordance with ASTM E168. FTIR Analysis of the extract: Pass.
3. Properties: Section 3.7

Properties	Requirements	Results
Weight	1.98 to 2.42 (oz. per. yd ²)	2.03
Linting	<10 (mg/sq.ft.)	7.71
Cloth Integrity	no tears on screen wires after 25 strokes	PASS

4. Extractable Matter: Section 3.7.6

Extractant	Requirements (% by weight, max)	Results (% by weight)
Hexane	Grade A: 0.75	0.02
ASTM D1193, Type IV	Grade A: 0.75	0.08
Methyl Ethyl Ketone	Grade A: 0.75	0.18
AMS 3167	Grade A: 0.75	0.25

5. pH: Section 3.7.7 determined in accordance with ASTM E70:

Wiper	Requirements	Results
Grade A	6.0 to 7.5	7.17

Prepared and Approved by:



Champagne Inthavongsa
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Date:04/16/2019

CERTIFICATE OF ANALYSIS
BMS 15-5G
Nonwovens' Cloth K802 Sontara, Lot No: 1033774

Reported below are acceptance test results for Grade A cleaning cloth to be compared with the requirements of BMS 15-5G.

Material Requirements: Section 5.0

1. Fabric visually examined and found to be free of metal chips and other contaminants.

2. Extractable Contaminants tested in accordance with Section 8.1:

Extractant	Requirements (% contaminant extract, max)	Results
ASTM D1193, Type IV (water)	Grade A: 1.20	0.08
Acetone	Grade A: 1.00	0.14
Ethyl acetate	Grade A: 0.8	0.12
Hexane	Determination of silicon grease and oils	PASS

3. Wiper material shall be free of detectable silicone greases and oils when tested in accordance with Section 8.2: FTIR Analysis of the extract: PASS

4. pH of wiper fabric extract tested in accordance with Section 8.3:

Wiper	Requirements	Results
Class A	6.0 to 7.5	7.12

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Date: 04/16/2019

CERTIFICATE OF ANALYSIS
DMS 1820G
Nonwovens' Cloth K802 Sontara, Lot No: 1033774

Reported below are acceptance test results for Type 1, Class A, Grade 4 and Grade 5 cleaning cloth to be compared with the requirements of DMS 1820G.

1. Cleanliness: Section 3.3.3

Fabric visually examined and found to be free of paint, oil, grease, metal, plastic, and other foreign materials in accordance with paragraph 3.4.5.4.

2. Physical Properties: Section 3.4

Properties	Requirements	Results
Absorption Rate	Readily absorbs water	PASS
Color	Unbleached White	PASS
Defects	Free of holes, tears unacceptable construction or stiffness	PASS
Weight	0.4 to 2.0 (oz. per. yd ²)	2.03
Linting	<10 mg / ft ² . (max)	7.71

3. Chemical Properties: Section 3.5

Extractant	Requirements	Results
Water	0.75% by weight (max)	0.08

4. pH of Water Extract: Section 3.5.10

Class	Requirements	Results
Grade 5	7.0 to 8.5	7.17

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