

Date of Issue: 3/3/2025 Report Number: 25-000560 Revision Number:1 Date Order Received: 02/26/2025

For the Account of:

Mermet 5970 N Main St Cowpens SC 29330

Client's Identification: **E SCREEN KOOLBLACK 0.5%**

CERTIFICATE OF TESTING

TEST PERFORMED: NFPA 701 Standard Methods of Fire Test for Flame Propagation of Textiles and Films 2023 – Test #1

TEST RESULTS							
Spe	cimen	Mass Initial (g)	Mass Final (g)	Mass Loss (%)	Drip Burn (s)	Afterflame (s)	
	1	32.7	29.2	11	0.0	0.0	
:	2	32.8	29.3	11	0.0	0.0	
:	3	31.8	29.8	6	0.0	0.0	
	4	31.4	29.8	5	0.0	0.0	
ł	5	31.7	29.8	6	0.0	0.0	
	6	30.7	28.7	7	0.0	0.0	
-	7	31.9	29.7	7	0.0	0.0	
1	В	31.9	29.0	9	0.0	0.0	
9	Э	31.5	27.0	14	0.0	0.0	
1	0	31.0	29.2	6	0.0	0.0	
Ave	rage	31.7	29.2	8	0.0	0.0	
Approximate weight (oz./sq. yd): 15.6			Standard Deviatior	on: 2.9 Average + 3 SD: 16.7): 16.7	
Product Configuration:	X	Single Layer	🛛 Multi Layer				
Conditioning:	anditioning: Oven at 220°F for minimum 30 minutes				\boxtimes 70 ±2°F & 65 ±2%RH for minimum 24 hours		

Intended End-use (if known & other than drapery): Drapery

ACCEPTANCE CRITERIA

Afterflame is required to be recorded; however, it is not factored into the Acceptance Criteria

- 1. Where fragments or residues of specimens that fall to the floor of the test chamber continue to burn for more than an average of 2 seconds per specimen for the sample of 10 specimens, the material shall be recorded as failing. (Flaming Drip)
- Where the average weight loss of the 10 specimens in a sample is greater than 40 percent, the material shall be recorded as failing. 2.
- 3. Individual specimens will be listed as a failure if it exceeds mean + 3 SD
- 4. Where the specimens do not demonstrate performance in accordance with either of the conditions indicated above, the material shall be recorded as passing this test and shall be designated as flame resistant.

CONCLUSION Based on the above Results and Acceptance Criteria, the item tested:

⊠ Complies

Does Not Comply

CERTIFICATION I certify that the above results were obtained after testing specimen in accordance with the procedures and equipment specified by the standard stated above.

Berta Stiver

Authorized Signature

Date Order Completed: 03/03/2025

553 76th Street, Byron Center, MI 49315

P: 616-559-6123 E: contact@applied-lab.com

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This laboratory test is not intended to reflect fabric performance under actual conditions. The certification procedure merely measures the performance of samples as received under the predetermined and specific test conditions prescribed by the standard specific. This certificate applies only to the standards or processing identified and to the random sample(s) tested. The test results are representative of the qualities of the piece or lot only to the standards or processing identified and to the random sample(s) tested. The test results are representative of the qualities of the piece or lot only to the standards or processing identified and to the random sample(s) tested.

Our reports and letters are for the exclusive use of the customer to whom they are addressed and they and the corporation named on the reverse are not to be used under any circumstances without prior written approval. Samples will not be retained, unless specified by the customer. Retained samples will be kept a maximum time of one year unless a specific retention period is necessary.



Date of Issue: 3/3/2025 Report Number: 25-000561 Revision Number:1 Date Order Received: 02/26/2025

For the Account of:

Mermet 5970 N Main St Cowpens SC 29330

Client's Identification: **E SCREEN KOOLBLACK 1%**

CERTIFICATE OF TESTING

TEST PERFORMED: NFPA 701 Standard Methods of Fire Test for Flame Propagation of Textiles and Films 2023 – Test #1

TEST RESULTS						
Spec	imen	Mass Initial (g)	Mass Final (g)	Mass Loss (%)) Drip Burn (s)	Afterflame (s)
1		28.5	22.6	21	0.0	0.0
2		28.7	23.9	17	0.0	0.0
3		29.1	24.0	18	0.0	0.0
4		29.5	22.7	23	0.0	0.0
5		29.2	23.7	19	0.0	0.0
6		29.3	23.4	20	0.0	0.0
7		29.0	23.0	21	0.0	0.0
8		29.3	23.4	20	0.0	0.0
9		29.4	23.9	19	0.0	0.0
10	1	29.4	23.8	19	0.0	0.0
Avera	age	29.1	23.4	20	0.0	0.0
Approximate weight (oz./sq. yd): 14.3			Standard Deviation: 1.7		Average + 3 SD: 25.1	
Product Configuration:	uration: 🗵 Single Layer		☐ Multi Layer			
Conditioning: □ Oven at 220°F for minimum 30 minutes □ Oven at 220°F for minimum 30 minutes □ To ±2°F & 65 ±2%RH for minim Intended End-use (if known & other than drapery): Drapery □ Drapery □ Drapery					for minimum 24 hours	

ACCEPTANCE CRITERIA

Afterflame is required to be recorded; however, it is not factored into the Acceptance Criteria

- 1. Where fragments or residues of specimens that fall to the floor of the test chamber continue to burn for more than an average of 2 seconds per specimen for the sample of 10 specimens, the material shall be recorded as failing. (Flaming Drip)
- Where the average weight loss of the 10 specimens in a sample is greater than 40 percent, the material shall be recorded as failing. 2.
- 3. Individual specimens will be listed as a failure if it exceeds mean + 3 SD
- 4. Where the specimens do not demonstrate performance in accordance with either of the conditions indicated above, the material shall be recorded as passing this test and shall be designated as flame resistant.

CONCLUSION Based on the above Results and Acceptance Criteria, the item tested:

⊠ Complies

Does Not Comply

CERTIFICATION I certify that the above results were obtained after testing specimen in accordance with the procedures and equipment specified by the standard stated above.

Berta Stiver

Authorized Signature

Date Order Completed: 03/03/2025

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Date of Issue: 3/3/2025 Report Number: 25-000562 Revision Number:1 Date Order Received: 02/26/2025

For the Account of:

Mermet 5970 N Main St Cowpens SC 29330

Client's Identification: **E SCREEN KOOLBLACK 3%**

CERTIFICATE OF TESTING

TEST PERFORMED: NFPA 701 Standard Methods of Fire Test for Flame Propagation of Textiles and Films 2023 – Test #1

TEST RESULTS					
Specime	en Mass Initial (g)	Mass Final (g)	Mass Loss (%)	Drip Burn (s)	Afterflame (s)
1	26.6	21.6	19	0.0	0.0
2	24.5	22.2	9	0.0	0.0
3	26.0	23.1	11	0.0	0.0
4	26.6	23.0	14	0.0	0.0
5	25.8	22.0	15	0.0	0.0
6	26.1	22.1	15	0.0	0.0
7	26.2	22.4	15	0.0	0.0
8	26.2	22.0	16	0.0	0.0
9	25.9	22.9	12	0.0	0.0
10	26.4	22.0	17	0.0	0.0
Average	26.0	22.3	14	0.0	0.0
Approximate weight (oz./sq. yd)	Standard Deviation: 2.9 Average		Average + 3 SI): 22.7	
Product Configuration: Image: Single Layer Image: Multi Layer Conditioning: Image: Oven at 220°F for minimum 30 minutes Intended End-use (if known & other than drapery): Drapery				70 ±2°F & 65 ±2%RH	for minimum 24 hours

ACCEPTANCE CRITERIA

Afterflame is required to be recorded; however, it is not factored into the Acceptance Criteria

- 1. Where fragments or residues of specimens that fall to the floor of the test chamber continue to burn for more than an average of 2 seconds per specimen for the sample of 10 specimens, the material shall be recorded as failing. (Flaming Drip)
- Where the average weight loss of the 10 specimens in a sample is greater than 40 percent, the material shall be recorded as failing. 2.
- 3. Individual specimens will be listed as a failure if it exceeds mean + 3 SD
- 4. Where the specimens do not demonstrate performance in accordance with either of the conditions indicated above, the material shall be recorded as passing this test and shall be designated as flame resistant.

CONCLUSION Based on the above Results and Acceptance Criteria, the item tested:

⊠ Complies

Does Not Comply

CERTIFICATION I certify that the above results were obtained after testing specimen in accordance with the procedures and equipment specified by the standard stated above.

Berta Stiver

Authorized Signature

Date Order Completed: 03/03/2025

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Our reports and letters are for the exclusive use of the customer to whom they are addressed and they and the corporation named on the reverse are not to be used under any circumstances without prior written approval. Samples will not be retained, unless specified by the customer. Retained samples will be kept a maximum time of one year unless a specific retention period is necessary.



Date of Issue: 3/3/2025 Report Number: 25-000563 Revision Number:1 Date Order Received: 02/26/2025

For the Account of:

Mermet 5970 N Main St Cowpens SC 29330

Client's Identification: E SCREEN KOOLBLACK 5%

CERTIFICATE OF TESTING

TEST PERFORMED: NFPA 701 Standard Methods of Fire Test for Flame Propagation of Textiles and Films 2023 – Test #1

TEST RESULTS					
Specir	nen Mass Initial (g)	Mass Final (g)	Mass Loss (%)	Drip Burn (s)	Afterflame (s)
1	23.9	19.9	17	0.0	0.0
2	24.6	19.8	20	0.0	0.0
3	23.9	19.9	17	0.0	0.0
4	25.2	20.2	20	0.0	0.0
5	24.7	19.8	20	0.0	0.0
6	24.7	20.3	18	0.0	0.0
7	24.2	20.2	17	0.0	0.0
8	23.7	20.0	16	0.0	0.0
9	24.4	21.0	14	0.0	0.0
10	24.6	21.0	15	0.0	0.0
Avera	ge 24.4	20.2	17	0.0	0.0
Approximate weight (oz./sq. y	Standard Deviation: 2.1		Average + 3 SD: 23.3		
Product Configuration:	🗵 Single Layer	☐ Multi Layer			
Conditioning: □ Oven at 220°F for minimum 30 minutes □ Oven at 220°F for minimum 30 minutes □ To ±2°F & 65 ±2%RH for minim Intended End-use (if known & other than drapery): Drapery □ Drapery □ Drapery					for minimum 24 hours

ACCEPTANCE CRITERIA

Afterflame is required to be recorded; however, it is not factored into the Acceptance Criteria

- 1. Where fragments or residues of specimens that fall to the floor of the test chamber continue to burn for more than an average of 2 seconds per specimen for the sample of 10 specimens, the material shall be recorded as failing. (Flaming Drip)
- 2. Where the average weight loss of the 10 specimens in a sample is greater than 40 percent, the material shall be recorded as failing.
- 3. Individual specimens will be listed as a failure if it exceeds mean + 3 SD
- 4. Where the specimens do not demonstrate performance in accordance with either of the conditions indicated above, the material shall be recorded as passing this test and shall be designated as flame resistant.

CONCLUSION Based on the above Results and Acceptance Criteria, the item tested:

☑ Complies

Does Not Comply

CERTIFICATION I certify that the above results were obtained after testing specimen in accordance with the procedures and equipment specified by the standard stated above.

Berta Stiver

Authorized Signature

Date Order Completed: 03/03/2025

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Date of Issue: 3/3/2025 Report Number: 25-000564 Revision Number:1 Date Order Received: 02/26/2025

For the Account of:

Mermet 5970 N Main St Cowpens SC 29330

Client's Identification: **E SCREEN KOOLBLACK 10%**

CERTIFICATE OF TESTING

TEST PERFORMED: NFPA 701 Standard Methods of Fire Test for Flame Propagation of Textiles and Films 2023 – Test #1

TEST RESULTS						
Spe	cimen	Mass Initial (g)	Mass Final (g)	Mass Loss (%)	Drip Burn (s)	Afterflame (s)
	1	23.5	21.8	7	0.0	0.0
:	2	23.4	21.6	8	0.0	0.0
:	3	23.0	20.9	9	0.0	0.0
	4	22.9	21.3	7	0.0	0.0
4	5	23.3	21.7	7	0.0	0.0
	6	23.5	20.9	11	0.0	0.0
;	7	22.9	21.5	6	0.0	0.0
4	В	22.9	21.5	6	0.0	0.0
9	9	23.2	21.5	7	0.0	0.0
1	0	23.2	21.0	9	0.0	0.0
Ave	rage	23.2	21.4	8	0.0	0.0
Approximate weight (oz./sq. yd): 11.4			Standard Deviation: 1.6		Average + 3 SD: 12.8	
Product Configuration: Image: Single Layer Conditioning: Image: Oven at 220°F for Intended End-use (if known & other than drapery): Drap] 70 ±2°F & 65 ±2%RH	for minimum 24 hours

ACCEPTANCE CRITERIA

Afterflame is required to be recorded; however, it is not factored into the Acceptance Criteria

- 1. Where fragments or residues of specimens that fall to the floor of the test chamber continue to burn for more than an average of 2 seconds per specimen for the sample of 10 specimens, the material shall be recorded as failing. (Flaming Drip)
- Where the average weight loss of the 10 specimens in a sample is greater than 40 percent, the material shall be recorded as failing. 2.
- 3. Individual specimens will be listed as a failure if it exceeds mean + 3 SD
- 4. Where the specimens do not demonstrate performance in accordance with either of the conditions indicated above, the material shall be recorded as passing this test and shall be designated as flame resistant.

CONCLUSION Based on the above Results and Acceptance Criteria, the item tested:

⊠ Complies

Does Not Comply

CERTIFICATION I certify that the above results were obtained after testing specimen in accordance with the procedures and equipment specified by the standard stated above.

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