

Fire Test Certificate – Specimen

Fabric: Austronet 204FR
Type: B1

J&C Joel 
Inspiration in every performance

for the proof of Fire behaviour according to DIN 4102-1

Reference: FLT 3717120 (Translation of the German Prüfzeugnis - no guarantee for translation of technical terms)

Order: 2019-11-12 **Arrived:** 2019-11-12

Description of samples: Uncoated knitted netting made of polyethylene flat yarn in different colours to be used as privacy screen, in textile architecture or for decorative purposes, named "Austronet 202 B1 / UV", "Austronet 700 B1 / UV", "Austronet 203 B1 / UV", "Austronet 710 B1 / UV" and "Austronet 204 B1 / UV", "Austronet 720 B1 / UV". (for details see page 2,3)

Delivered: 2019-11-14

Content of request: Proof of flammability to classify building materials to class B1 "schwerentflammbar" according to DIN 4102-1

Assessment: The examined product meets the requirements of class B1 for "schwerentflammbare" (not easily flammable) building materials according to DIN 4102-1 in any colour, in a freely suspended arrangement or at a distance of > 40 mm to the same or other plain building materials and a weight per unit area range from 105 g/m² to 200 g/m² (for details see page 5).

Validity: 2025-02-28

Sampling: The sample was sent to the laboratory by the sponsor.

Remark: If the above-mentioned building material is not used as product according to MBO § 2, there is no need for a general building supervisory test certificate.

This test certificate is not regarded as the sole proof if the tested building material is used as building product within the meaning of state building prescriptions (MBO § 17).

This test certificate does not replace an eventually necessary proof of applicability concerning building supervisory or building laws in the meaning of state building prescriptions. This has to be verified by:

- "allgemeine bauaufsichtliche Zulassung" (general building inspectorate approval) or by
- "allgemeines bauaufsichtliches Prüfzeugnis" (general building inspectorate certificate) or by
- "Zustimmung im Einzelfall" (exceptional approval).

This test certificate can serve as a basis for building supervisory procedures for:

- regulated building products for the pre scribed proof of conformity
- non-regulated building products for the needed proof of applicability.

This test certificate comprises 8 pages and 9 enclosures.

Approved testing, inspection and certification body

This test certificate must not be published and copied preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents. Agreement of the test laboratory has to be given in any case if norms in which the tests are based or other technical standards have changed.



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SPECIMEN
TEST CERTIFICATE



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1 Description of test material

1.1 Test material (according to the sponsor)

The delivered materials are knitted nettings made of uncoated polyethylene flat yarn (HDPE) with a yarn thickness of approximately 30 µm. The knitted nettings are intended to be used as privacy screens, in textile architecture or for decorative purposes and were named with the trade names "Austronet 202 B1 / UV", "Austronet 700 B1 / UV", "Austronet 203 B1 / UV", "Austronet 710 B1 / UV" und "Austronet 204 B1 / UV", "Austronet 720 B1 / UV" by the sponsor.

1.2 Description of the delivered samples

For the tests the laboratory received 9 sections of uncoated knit fabrics (ribbon knits) made of thermoplastic flat yarn. The materials consisted of plain, uncoated plastic tapes (flat yarn). The flat yarns arranged parallel to each other in the transverse direction were connected with a flat yarn running in the longitudinal direction in mesh-like thread loops.

For the tests, 9 sections in different colours were provided to the laboratory by the client. The samples were marked with the trade names and were provided in the following variants (colours):

Tade names	Dmensions	Clour	Nminal weight
"Austronet 202 B1 / UV" und "Austronet 700 B1 / UV"	length: ca. 4m width: ca. 2 m	black, blue, white	105 g/m ²
"Austronet 203 B1 / UV" und "Austronet 710 B1 / UV"	length: ca. 1m width: ca. 1 m	black, red, white	140 g/m ²
"Austronet 204 B1 / UV" und "Austronet 720 B1 / UV"	length: ca. 4m width: ca. 3 m		200 g/m ²

Characteristic values: see paragraph 4.1; photos: see enclosures 4-9.

Other specifications are not known to the laboratory, samples are stored.

2 Preparation of samples

For the small burner (Brennkasten) test from all delivered materials samples for edge flame exposure (dimensions 190 mm x 90 mm) and samples for surface flame exposure (dimensions 230 mm x 90 mm) have been cut in longitudinal and transverse directions.

For the tests in the fire shaft (Brandschacht), samples of the article with the lowest and the article with the highest weight per unit area in each of the colours delivered were cut to size 1000 mm x 190 mm in both longitudinal and transverse direction. 12 test specimens were assembled from 4 samples each. (Assignment of the samples see page 5 and 7)

Afterwards all samples were kept in a climate chamber acc. DIN 50014-23/50-2 until they reached constant weight.

3 Arrangement of samples

The tests in the fire shaft ("Brandschacht") have been performed acc. DIN 4102-1 and -16 (building materials class B1). The the small burner ("Brennkasten") tests have been performed acc. DIN 4102-1, chapter 6.2.5 (building materials class B2).

Arrangement of all samples: single layered, freely suspended.

Examination period: February 2020



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4 Results

- Table 1 Material characteristics
- Table 2.1-2.6 Test results class B2 (Brennkasten), see enclosures 1-3
- Table 3.1-3.2 Test results class B1 (Brandschacht)

4.1 Material characteristics

Table 1

Trade names	Colour	Manufacturer's data	Measured values		
		Weight per unit area [g/m ²]	Thickness (m.v.) [mm]	Thickness (s) [mm]	Weight per unit area [g/m ²]
"Austronet 202 B1 / UV" and "Austronet 700 B1 / UV"	black	105	1.26	0.038	106
	blue		1.27	0.017	106
	white		1.10	0.028	101
"Austronet 203 B1 / UV" and "Austronet 710 B1 / UV"	black	140	1.37	0.063	130
	blue		1.31	0.074	138
	white		1.44	0.018	155
"Austronet 204 B1 / UV" and "Austronet 720 B1 / UV"	black	200	1.50	0.066	178
	blue		1.62	0.048	183
	white		1.53	0.055	196

./. not received/not measured
m.v. mean value
s standard deviation

4.2 Results of the fire behaviour

4.2.1 Test results class B2 (Brennkasten)

All building materials class B1 must also meet the requirements of materials class B2 (flammable). The material, tested in "Brennkasten" acc. DIN 50 050 meets the requirements class B2; the material does not show burning particles/droplets during these tests.
(Results see enclosures 1-3, tables 2.1-2.6)

4.2.2 Test results class B1 (Brandschacht)

The results of these tests are summarized in the following tables:

- 3.1 Tests on article "Austronet 202 B1 / UV" and "Austronet 700 B1 / UV" (minimum weight per unit area) and
- 3.2 Tests on article "Austronet 204 B1 / UV" and "Austronet 720 B1 / UV" (maximum weight per unit area)



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Table 3.1

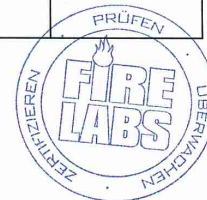
Test results "Brandschachtprüfung" (part 1)								
line no.		test results specimen-no.						requirements
		A	B	C	D	E	F	
1	Number of specimen arrangement acc. DIN 4102 –15 Table 1	1	1	1	1	1	1	
2	Maximal flame height above bottom edge cm	20	20	20	20	20	20	*)
3	Time ¹⁾ min	1	1	1	1	1	1	
4	Burning / melting through Time ¹⁾min	1	1	1	1	1	1	
5	Reverse side of samples: Flames / glowing Time ¹⁾min:s	./.	./.	./.	./.	./.	./.	
6	Discolouring Time ¹⁾min:s	./.	./.	./.	./.	./.	./.	
7	Falling of burning droplets Begin ¹⁾min	No	No	No	No	No	No	
8	Extend: Sporadic falling of burning droplets							
9	Continuous falling of burning droplets							
10	Falling of burning parts Begin ¹⁾min:s	No	No	No	No	No	No	
11	Extend: Sporadic falling of burning parts							
12	Continuous falling of burning parts							
13	Afterflame time at the bottom of the sieve (max.) min:s	./.	./.	./.	./.	./.	./.	
14	Impairment of the burner flames by dropping or falling Material Time ¹⁾min:s	No	No	No	No	No	No	
15	Premature end of test	No	No	No	No	No	No	
16	Final occurrence of burning at the specimen ¹⁾min Time of eventually end of test ¹⁾min:s	2	3	3	2	3	3	

¹⁾ Indication of time: from the beginning of testing procedure

- No data / Not tested

./. Not occurred

*) No cause for complaint



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Test results "Brandschachtprüfung" (part 2)								
line no.		test results specimen-no.						requirements
		A	B	C	D	E	F	
17	<u>Afterflame after end of test</u>							
18	Timemin:s	No	No	No	No	No	No	
19	Number of samples							
20	Front side of sample							
21	Back side of sample							
21	Flame lengthcm							
22	<u>Afterglow after end of test</u>							
23	Timemin:s	No	No	No	No	No	No	
23	Number of sample							
24	<u>Place of appearance:</u>							
24	Lower half of sample							
25	Upper half of sample							
26	Front side of sample							
27	Back side of sample							
28	<u>Smoke density</u>							
28	≤ 400 % min							
29	≥ 400 % min (very strong smoke density)	1.4	1.3	1.4	0.5	1.4	1.6	
30	Diagram fig. no.	./.	./.	./.	./.	./.	./.	
31	<u>Residual length</u>							
	Individual valuecm	60 48 62 47	60 56 49 39	53 50 50 59	54 48 48 65	66 55 49 52	51 45 58 53	> 0
32	Average valuecm	54	51	53	53	55	51	≥ 15
33	Photo of the test specimen fig. no.	2	4	6	8	10	12	
34	<u>Flue gas temperature</u>							
35	Maximum of average value °C	108	110	112	116	112	115	≤ 200
36	Time ¹⁾min:s	10:00	9:22	10:00	9:38	9:32	9:40	
	Diagram fig. no.	1	3	5	7	9	11	
37	<u>Remarks:</u> line 32: Due to the residual length of > 45 cm no additional tests were proceed (DIN 4102-16: 2015-09, 5.2 b)). (Graphs and photos: see enclosures 4 - 6)							

¹⁾ Indication of time: from the beginning of testing procedure

- Not tested

./. Not occurred

*) No cause for complaint

Test specimen	Test-no.	Product	Colour	Sample orientation
A	717120-001	"Austronet 202 B1 / UV" and "Austronet 700 B1 / UV"	black	longitudinal
B	717120-002		blue	transverse
C	717120-003			longitudinal
D	717120-004		white	transverse
E	717120-005			longitudinal
F	717120-006			transverse



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Table 3.2

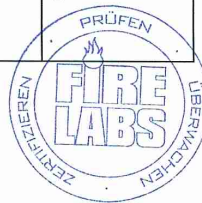
Test results "Brandschachtprüfung" (part 1)								
line no.		test results specimen-no.						requirements
		G	H	I	K	L	M	
1	Number of specimen arrangement acc. DIN 4102 –15 Table 1	1	1	1	1	1	1	-
2	Maximal flame height above bottom edge cm	20	20	20	20	20	20	*)
3	Time ¹⁾ min	1	1	1	1	1	1	
4	Burning / melting through Time ¹⁾min	1	1	1	1	1	1	-
5	Reverse side of samples: Flames / glowing Time ¹⁾min:s	./.	./.	./.	./.	./.	./.	-
6	Discolouring Time ¹⁾min:s	./.	./.	./.	./.	./.	./.	-
7	Falling of burning droplets Begin ¹⁾min	Yes 1	No	Yes 1	No	No	No	-
8	Extend: Sporadic falling of burning droplets	Yes		Yes				
9	Continuous falling of burning droplets	No		No				
10	Falling of burning parts Begin ¹⁾min:s	No	No	No	No	No	No	-
11	Extend: Sporadic falling of burning parts							
12	Continuous falling of burning parts							
13	Afterflame time at the bottom of the sieve (max.) min:s	0:08	./.	0:04	./.	./.	./.	-
14	Impairment of the burner flames by dropping or falling Material Time ¹⁾min:s	No	No	No	No	No	No	-
15	Premature end of test	No	No	No	No	No	No	-
16	Final occurrence of burning at the specimen ¹⁾min Time of eventually end of test ¹⁾min:s	4	5	5	6	4	6	-

¹⁾ Indication of time: from the beginning of testing procedure

- Not tested

./. Not occurred

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Test results "Brandschachtprüfung" (part 2)								
line no.		test results specimen-no.						requirements
		G	H	I	K	L	M	
17	<u>Afterflame after end of test</u>	No	No	No	No	No	No	-
18	Timemin:s							
19	Number of specimen							
20	Front side of specimen							
21	Back side of specimen							
22	Flame lengthcm							
23	<u>Afterglow after end of test</u>	No	No	No	No	No	No	-
24	Timemin:s							
25	Number of specimen							
26	<u>Place of appearance:</u>							
27	Lower half of specimen							
28	Upper half of specimen							
29	Front side of specimen							
30	Back side of specimen							
31	<u>Smoke density</u>							
32	≤ 400 % min	4.2	1.5	1.8	3.6	4.2	2.5	
33	≥ 400 % min (very strong smoke density)	./.	./.	./.	./.	./.	./.	
34	Diagram fig. no.	14	16	18	20	22	24	
35	<u>Residual length</u>							
36	Individual valuecm	64	45	56	30	48	55	> 0
37		60	56	50	49	43	54	
38		51	54	58	54	48	48	
39		52	52	48	45	54	51	
40	Average valuecm	56	51	53	44	48	52	≥ 15
41	Photo of the test specimen fig. no.	13	15	17	19	21	23	
42	<u>Flue gas temperature</u>							
43	Maximum of average value. °C	115	115	117	113	114	117	≤ 200
44	Time ¹⁾min:s	10:00	9:38	9:50	9:52	9:38	9:30	
45	Diagram fig. no.	14	16	18	20	22	24	
46	<u>Remarks:</u>	line 13: Afterflame time at the bottom of the sieve < 20 sec. is not rated as "falling of burning parts or droplets"						
47		line 32: Due to the residual length of the samples of > 45 cm, no additional tests were carried out (DIN 4102-16, 5.2 b))						
48		(Graphs and photos: see enclosures 7 - 9)						

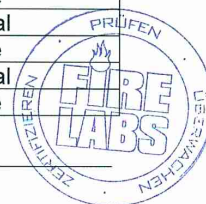
¹⁾ Indication of time: from the beginning of testing procedure

- No data / Not tested

./. Not occurred

* No cause for complaint

Test specimen	Test-no.	Product	Colour	Sample orientation
G	717120-007	"Austronet 204 B1 / UV" and "Austronet 720 B1 / UV"	black	longitudinal
H	717120-008		black	transverse
I	717120-009		blue	longitudinal
K	717120-010		blue	transverse
L	717120-011		white	longitudinal
M	717120-012		white	transverse



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5 Assessment

According to the test results in section 4.2 the material, described in section 1 and 4.1, fulfils the requirements of a building material class B1 according to DIN 4102-1 if the material is used suspended freely or with a distance of > 40 mm to the same or other plain materials.

The test results are valid for the tested weight per unit area from 105 g/m² - 200 g/m² in any colour (darkest colour: black, lightest colour: white).

The requirements of building materials class B2 are also fulfilled. No falling of burning parts or droplets occurred during these tests.

The verification

- for outdoor usage (ageing behaviour by outdoor weathering)
- after washing or cleaning with chemicals

has not been proved.

6 Special remarks

This certificate is only valid for the material as described under paragraph 1. In combination with other materials or with additional coatings or surfaces etc. the burning behaviour may differ.

This test certificate is not regarded as the sole proof if the tested building material is used as a building product within the meaning of state building prescriptions (MBO § 17).

This test certificate is no substitute for a General Building Inspectorate Certificate. This test certificate is granted without prejudice to the rights of third parties, or particular private proprietary rights.

In General Building Inspectorates procedures this test certificate can be based for

- regulated building materials for the required proof of accordance
- for not regulated building materials for the required proof of applicability

The explanations given in DIN 4102-1 app. D, especially concerning an external production control has to be considered.

This test certificate is valid until 2025-02-28, provided that the test methods, the classification rules and the technology do not change during this period.

Borkheide, 1st of March 2020




Head of the test laboratory
(Dipl.-Ing. Uwe Kühnast)

This translation was issued 1st of March 2020, in a case of doubt the German version is valid solely.

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Test results class B2 (Brennkasten)

Table 2.1

“Austronet 202 B1 / UV“ und “Austronet 700 B1 / UV“:

	black							white							dim.	requirements
Sample-No.	1	2	3	4	5	6	-	1	2	3	4	5	6	-	-	-
Ignition of the sample	1	1	1	1	1	1	-	1	1	1	1	1	1	-	s	-
Maximum flame height	2	3	2	3	3	3	-	3	3	2	4	4	3	-	cm	-
Time of the maximum	2	2	2	3	4	3	-	2	3	2	3	4	3	-	s	-
Flame tip reached the 150 mm test mark	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	s	≥ 20
Flame has extinguished before reaching the test mark	3	3	4	4	4	4	-	3	4	2	4	5	4	-	s	-
Ignition of filter paper	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	s	¹⁾
Smoke density (visual)	very low							very low							-	-
Flames have been extinguished	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	-	-
Afterburning time	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	-	-

View of the samples after the test (20 seconds after exposure the flame):

The samples were destroyed at flame impingement area in transverse and longitudinal direction: max. length of approx. 2 cm and approx. 1.5 cm in width, above sintered about 8 cm.

Samples 1, 2: Edge flame exposure, longitudinal
Sample 3: Surface flame exposure, transverse
Samples 4, 5: Edge flame exposure, longitudinal
Sample 6: Surface flame exposure, transverse

Table 2.2: blue, complete set of samples

	longitudinal							transverse							dim.	requirements
Sample-No.	1	2	3	4	5	6	-	1	2	3	4	5	6	-	-	-
Ignition of the sample	1	1	1	1	1	2	-	1	1	1	1	1	2	-	s	-
Maximum flame height	3	3	4	3	3	2	-	4	4	4	4	4	3	-	cm	-
Time of the maximum	2	3	3	4	3	2	-	3	4	3	4	4	3	-	s	-
Flame tip reached the 150 mm test mark	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	s	≥ 20
Flame has extinguished before reaching the test mark	3	4	4	4	4	2	-	4	5	5	4	5	4	-	s	-
Ignition of filter paper	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	s	¹⁾
Smoke density (visual)	very low							very low							-	-
Flames have been extinguished	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	-	-
Afterburning time	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	-	-

View of the samples after the test (20 seconds after exposure the flame):

The samples were destroyed at flame impingement area in transverse and longitudinal direction: max. length of approx. 3 cm and approx. 2 cm in width, above sintered about 2-5 cm.

Samples 1-5: Edge flame exposure

Sample 6: Surface flame exposure

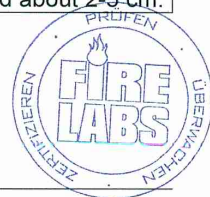
¹⁾ No ignition within 20 seconds

.J. Not occurred

dim. Dimension

Indication of time: from the beginning of testing procedure

Indication of measurements: from reference line of the flame



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Table 2.3

“Austronet 203 B1 / UV“ und “Austronet 710 B1 / UV“:

	black							white							dim.	requirements
Sample-No.	1	2	3	4	5	6	-	1	2	3	4	5	6	-	-	-
Ignition of the sample	1	1	1	1	1	1	-	1	1	2	1	1	2	-	s	-
Maximum flame height	3	3	2	3	3	2	-	2	3	2	6	5	2	-	cm	-
Time of the maximum	3	3	2	3	3	4	-	4	4	3	5	5	4	-	s	-
Flame tip reached the 150 mm test mark	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	s	≥ 20
Flame has extinguished before reaching the test mark	3	4	3	3	4	5	-	4	4	4	6	6	4	-	s	-
Ignition of filter paper	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	s	¹⁾
Smoke density (visual)	very low							very low							-	-
Flames have been extinguished	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	-	-
Afterburning time	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	-	-

View of the samples after the test (20 seconds after exposure the flame):

The samples were destroyed at flame impingement area in transverse and longitudinal direction: max. length of approx. 2 cm and approx. 1.5 cm in width, above sintered about 6 cm.

Samples 1, 2: Edge flame exposure, longitudinal

Sample 3: Surface flame exposure, transverse

Samples 4, 5: Edge flame exposure, longitudinal

Sample 6: Surface flame exposure, transverse

Table 2.4: red, complete set of samples

	longitudinal							transverse							dim.	requirements
Sample-No.	1	2	3	4	5	6	-	1	2	3	4	5	6	-	-	-
Ignition of the sample	1	1	1	1	1	2	-	1	1	1	1	1	2	-	s	-
Maximum flame height	3	3	3	4	3	1	-	4	3	4	4	3	1	-	cm	-
Time of the maximum	4	3	3	4	3	3	-	3	3	6	5	4	3	-	s	-
Flame tip reached the 150 mm test mark	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	s	≥ 20
Flame has extinguished before reaching the test mark	5	4	3	4	3	3	-	4	3	6	5	5	4	-	s	-
Ignition of filter paper	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	s	¹⁾
Smoke density (visual)	very low							very low							-	-
Flames have been extinguished	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	-	-
Afterburning time	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	-	-

View of the samples after the test (20 seconds after exposure the flame):

The samples were destroyed at flame impingement area in transverse and longitudinal direction: max. length of approx. 2 cm and approx. 1.5 cm in width, above sintered about 2 cm.

Samples 1-5: Edge flame exposure

Sample 6: Surface flame exposure

¹⁾ No ignition within 20 seconds

.J. Not occurred

dim. Dimension

Indication of time: from the beginning of testing procedure

Indication of measurements: from reference line of the flame



Fire Test Certificate – Specimen

Fabric: Austronet 204FR
Type: B1

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Table 2.5

“Austronet 204 B1 / UV” und “Austronet 720 B1 / UV”:

	black							red							dim.	require-ments
Sample-No.	1	2	3	4	5	6	-	1	2	3	4	5	6	-	-	-
Ignition of the sample	1	1	3	1	1	3	-	1	1	2	1	1	2	-	s	-
Maximum flame height	3	3	1	3	3	1	-	4	4	2	4	4	2	-	cm	-
Time of the maximum	4	3	5	4	4	4	-	6	3	3	5	4	3	-	s	-
Flame tip reached the 150 mm test mark	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	s	≥ 20
Flame has extinguished before reaching the test mark	6	5	5	4	5	5	-	5	4	3	6	5	4	-	s	-
Ignition of filter paper	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	s	¹⁾
Smoke density (visual)	very low							very low							-	-
Flames have been extinguished	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	-	-
Afterburning time	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	-	-

View of the samples after the test (20 seconds after exposure the flame):

The samples were destroyed at flame impingement area in transverse and longitudinal direction: max. length of approx. 3 cm and approx. 2 cm in width, above sintered about 3 cm.

Samples 1, 2: Edge flame exposure, longitudinal

Sample 3: Surface flame exposure, transverse

Samples 4, 5: Edge flame exposure, longitudinal

Sample 6: Surface flame exposure, transverse

Table 2.6: white, complete set of samples

	longitudinal							transverse							dim.	require-ments
Sample-No.	1	2	3	4	5	6	-	1	2	3	4	5	6	-	-	-
Ignition of the sample	1	1	1	1	1	4	-	1	1	1	1	1	3	-	s	-
Maximum flame height	4	5	4	5	4	1	-	3	3	5	4	3	1	-	cm	-
Time of the maximum	7	9	6	5	8	4	-	5	4	3	5	4	3	-	s	-
Flame tip reached the 150 mm test mark	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	s	≥ 20
Flame has extinguished before reaching the test mark	7	11	9	5	10	5	-	5	4	6	5	4	6	-	s	-
Ignition of filter paper	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	s	¹⁾
Smoke density (visual)	very low							very low							-	-
Flames have been extinguished	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	-	-
Afterburning time	.J.	.J.	.J.	.J.	.J.	.J.	-	.J.	.J.	.J.	.J.	.J.	.J.	-	-	-

View of the samples after the test (20 seconds after exposure the flame):

The samples were destroyed at flame impingement area in transverse and longitudinal direction: max. length of approx. 4 cm and approx. 1.5 cm in width, above sintered about 2 cm.

Samples 1-5: Edge flame exposure

Sample 6: Surface flame exposure

¹⁾ No ignition within 20 seconds

.J. Not occurred

dim. Dimension

Indication of time: from the beginning of testing procedure

Indication of measurements: from reference line of the flame



Fire Test Certificate – Specimen

Fabric: Austronet 204FR
Type: B1

J&C Joel 
Inspiration in every performance

Test certificate

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FLT 3717120

Test specimen A

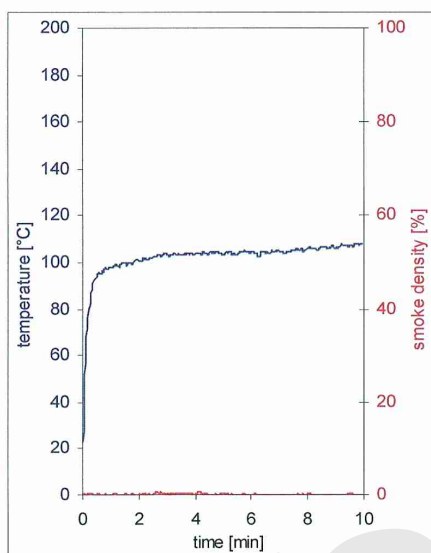


fig. 1
Graphs of the flue gas temperature and the smoke density

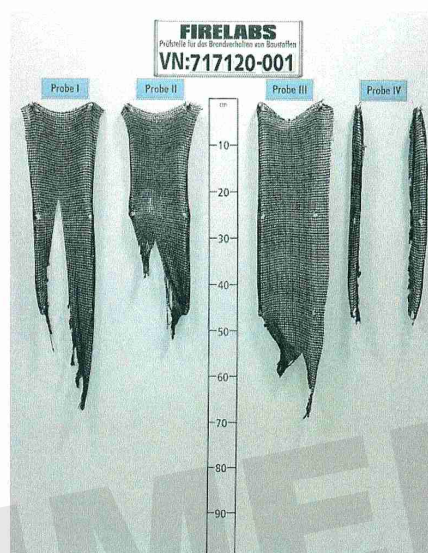


fig. 2
Photo of test specimen after the test

Test specimen B

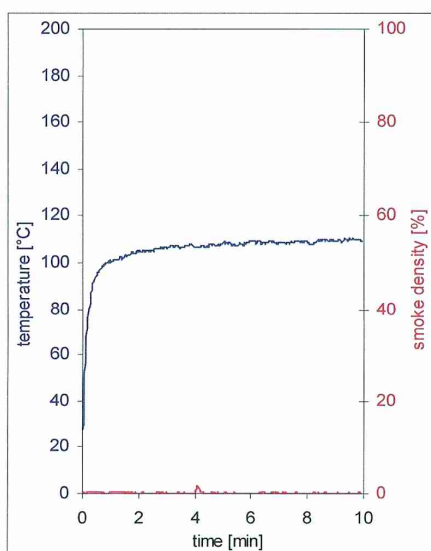


fig. 3
Graphs of the flue gas temperature and the smoke density

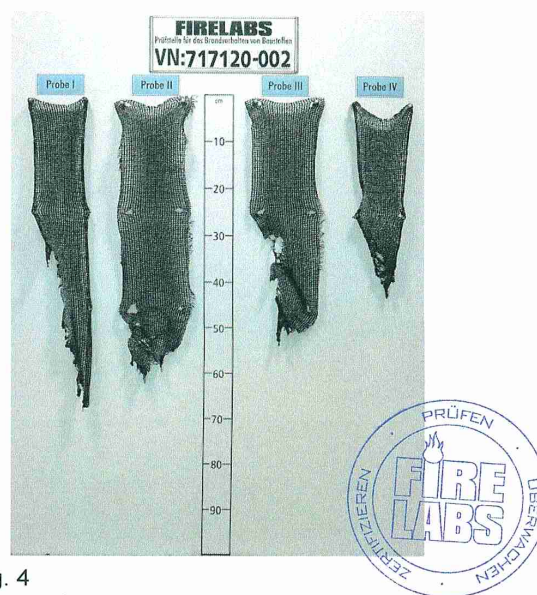


fig. 4
Photo of test specimen after the test

Fire Test Certificate – Specimen

Fabric: Austronet 204FR
Type: B1

J&C Joel 
Inspiration in every performance

Test certificate

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FLT 3717120

Test specimen C

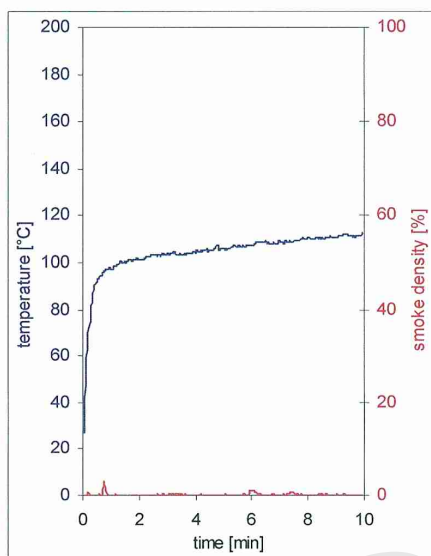


fig. 5
Graphs of the flue gas temperature and the smoke density

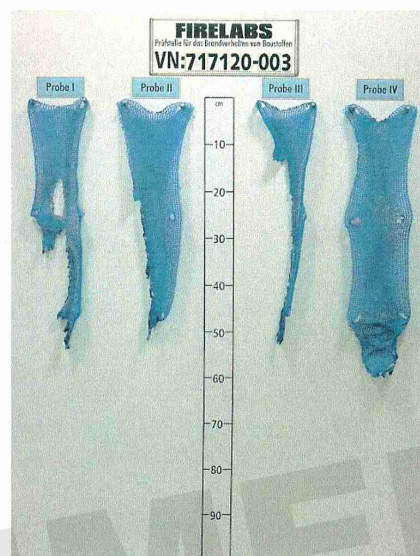


fig. 6
Photo of test specimen after the test

Test specimen D

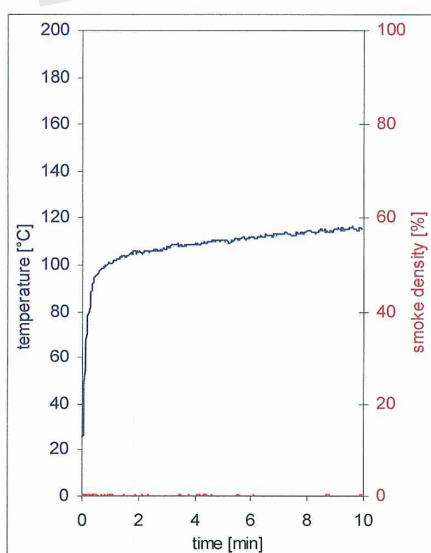


fig. 7
Graphs of the flue gas temperature and the smoke density



fig. 8
Photo of test specimen after the test

Fire Test Certificate – Specimen

Fabric: Austronet 204FR
Type: B1

J&C Joel
Inspiration in every performance

Test certificate

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FLT 3717120

Test specimen E

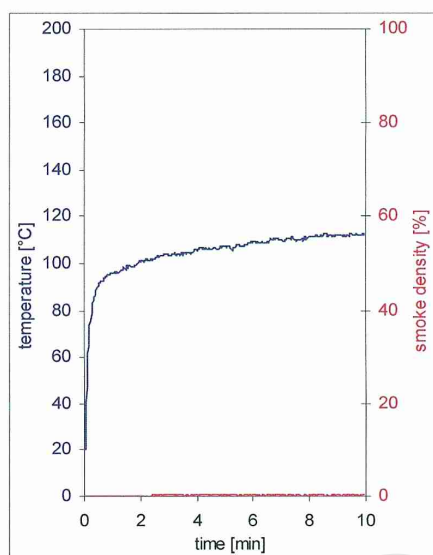


fig. 9
Graphs of the flue gas temperature and the smoke density

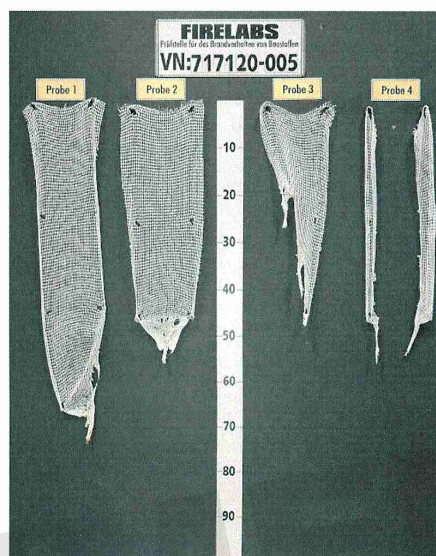


fig. 10
Photo of test specimen after the tes)

Test specimen F

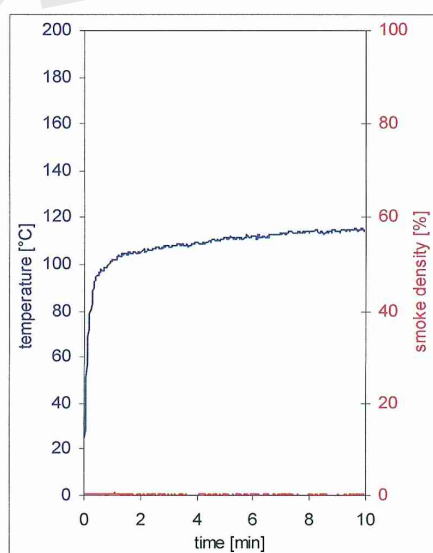


fig. 11
Graphs of the flue gas temperature and the smoke density

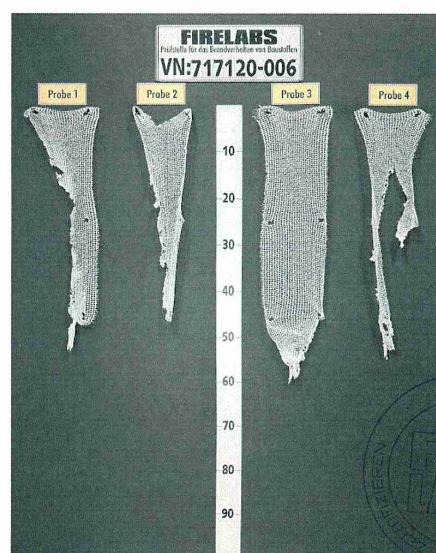


fig. 12
Photo of test specimen after the test

Fire Test Certificate – Specimen

Fabric: Austronet 204FR
Type: B1

J&C Joel
Inspiration in every performance

Test certificate

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FLT 3717120

Test specimen G

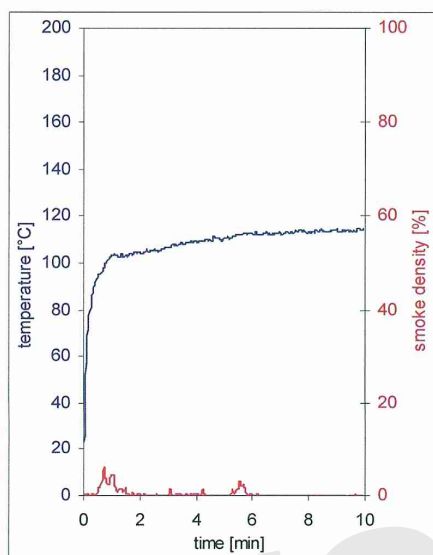


fig. 13
Graphs of the flue gas temperature and the smoke density

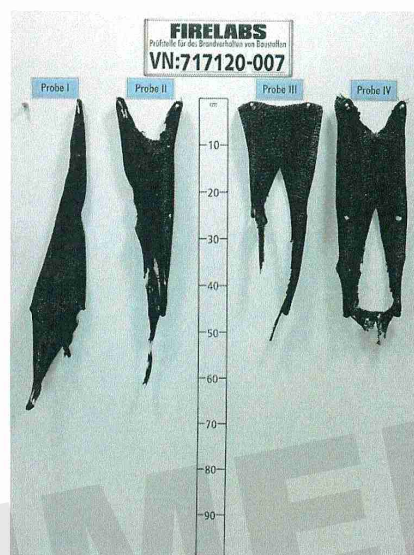


fig. 14
Photo of test specimen after the test

Test specimen H

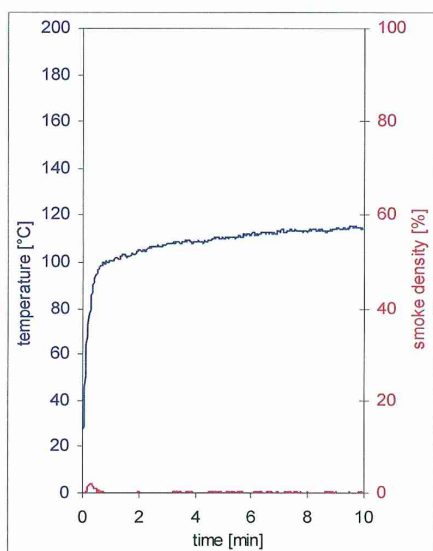


fig. 15
Graphs of the flue gas temperature and the smoke density



fig. 16
Photo of test specimen after the test

Fire Test Certificate – Specimen

Fabric: Austronet 204FR
Type: B1

J&C Joel 
Inspiration in every performance

Test certificate

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FLT 3717120

Test specimen I

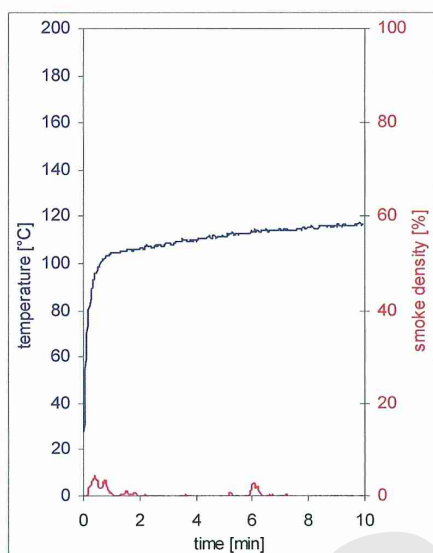


fig. 17
Graphs of the flue gas temperature and the smoke density

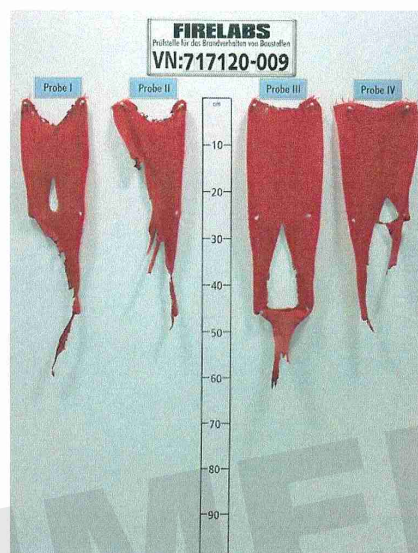


fig. 18
Photo of test specimen after the test

Test specimen K

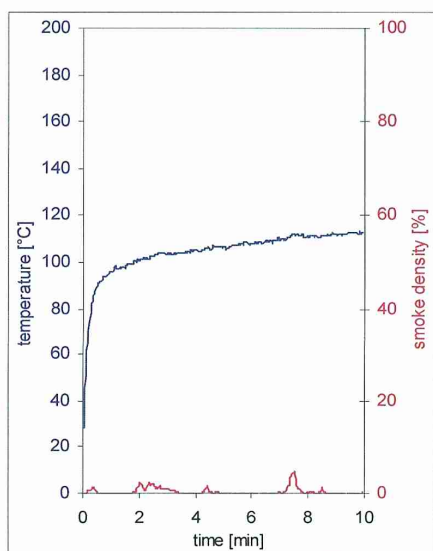


fig. 19
Graphs of the flue gas temperature and the smoke density



fig. 20
Photo of test specimen after the test

Fire Test Certificate – Specimen

Fabric: Austronet 204FR
Type: B1

J&C Joel
Inspiration in every performance

Test certificate

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Test specimen L

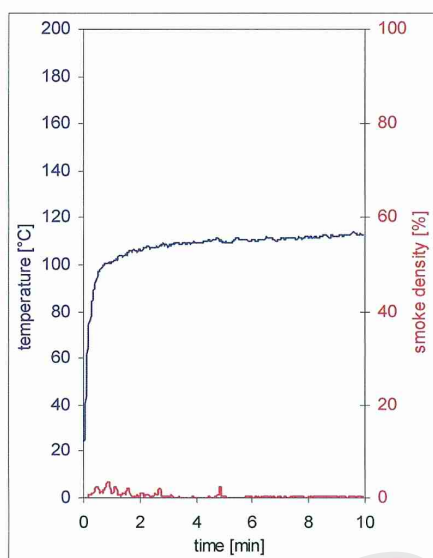


fig. 21
Graphs of the flue gas temperature and the smoke density

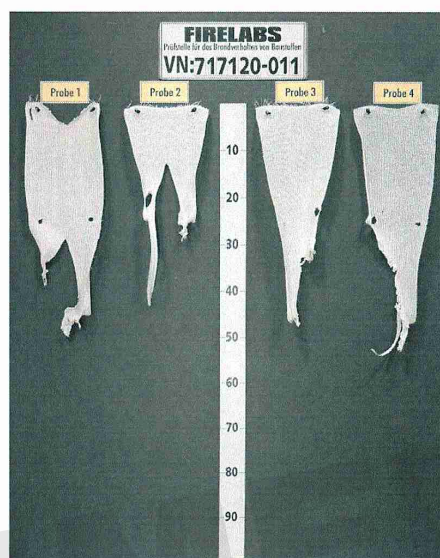


fig. 22
Photo of test specimen after the test

Test specimen M

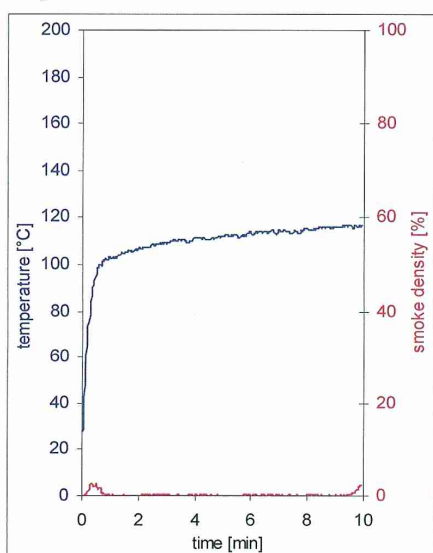


fig. 23
Graphs of the flue gas temperature and the smoke density

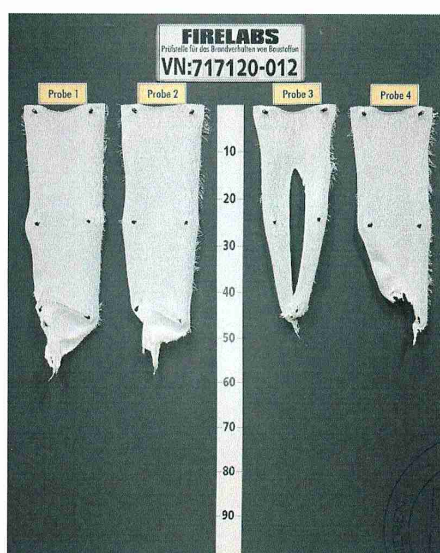


fig. 24
Photo of test specimen after the test