

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

Reference:	FLT 3670418	(Translation of the German Prüfzeugnis - no guarantee for translation of technical terms)
Sponsor:	Mermet SAS 58, chemin du Mont Maurin F - 38630 Veyrins	
Order:	2018-09-14	Arrived: 2018-10-16
Description of samples:	Fabric made of pvc coated glass fibre yarns, named "SCREEN PROGRESS-B1". (for details see page 2, 3)	
Delivered:	2018-10-16	
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, if used suspended freely or with distance of > 40 mm to the same or other plain materials. (for details see page 10)	
Validity:	2023-10-31	
Sampling:	The samples were 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 valid if the examined building material is used as product in 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 proofs of conformity
- non-regulated building products for the needed proofs of applicability.

This test certificate comprises 10 pages and 12 appendices.

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This test certificate must not be published and copied preceding agreement of the test laboratory and if agreed, only during validity and unchanged concerning appearance and contents.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.



Prüfstelle für das
Brandverhalten
von Baustoffen
Dipl.-Ing. Uwe Kühnast

Steinstrasse 18
D - 14822 Borkheide
Fon: +49 33845 90901
Fax: +49 33845 90909
Mail: info@firelabs.de

PÜZ-Stelle (LBO): BRA09

TEST CERTIFICATE



1 Description of test material

1.1 Test material (according to the sponsor)

The delivered materials are woven fabrics made of glass fibre yarns individually coated with plasticised pvc and thermally fixed threads. The fabrics are intended to be used indoor as sun protection or for decorative purposes and were named "SCREEN PROGRESS-B1" by the sponsor.

1.2 Description of the delivered samples

For the tests the laboratory received 3 sections of fabrics made of plastic coated yarns. The samples provided were labelled with the trade name, the respective colour name and colour-no and have been delivered in the following variants:

Trade name	Colour name	Colour-no	Colour		Sample size	
			warp threads	weft threads	Length [m]	Width [m]
SCREEN PROGRESS-B1 (3 %)	Charcoal	3030	Black	Black	2	2,51
	Perle Apricot	0771	White	Beige red		2,51
	Blanc	0202	White	White		3,57
SCREEN PROGRESS-B1 (9 %)	Charcoal	3030	Black	Black		2,51
	Perle Apricot	0771	White	Beige red		2,51
	Blanc	0202	White	White		2,57
SCREEN PROGRESS-B1 (17 %)	Charcoal	3030	Black	Black		2,51
	Perle Apricot	0771	White	Beige red		2,51
	Blanc	0202	White	White		2,57

Characteristic values: see passage 4.1; photos: see enclosures 1-9

Further details are not known to the laboratory; one retain sample of each variant has been deposited.

2 Preparation of samples

For the small burner ("Brennkasten") samples for edge flame exposure (dimensions 190 mm x 90 mm) and samples for surface flame exposure (dimensions 230 mm x 90 mm) were cut in warp and in weft orientation of the base fabric.

For the fire shaft ("Brandschacht") tests 18 specimens were assembled. The samples (dimensions 1000 mm x 190 mm) for the test specimens A, C, E, G, I, L, N, P and R were cut in warp orientation; the samples for the test specimens B, D, F, H, K, M, O, Q and S were cut in weft orientation of the fabric.

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

3 Arrangement of samples

The small burner tests ("Brennkastenprüfungen") have been performed acc. DIN 4102-1, chapter 6.2.5 (building materials class B2) without edge protection. The tests in the fire shaft ("Brandschacht") have been performed acc. DIN 4102-1 and -16 (building materials class B1).

Arrangement of the samples: single layer, freely suspended

Period of testing: November 2018

4 Results

- section 4.1 Material characteristics
- section 4.2.1 Test results class B2
- section 4.2.2 Test results class B1



4.1 Material characteristics

Table 1

Trade name	Manufacturer's data		Measured values		
	Mass per unit area [g/m ²]	Thickness [mm]	Mass per unit area [g/m ²]	Thickness (m.v.) [mm]	s
SCREEN PROGRESS-B1 (3 %)					
Charcoal	420 ± 5%	0,50 ± 5%	422	0,51	0,006
Perle Apricot			421	0,52	0,003
Blanc			424	0,51	0,005
SCREEN PROGRESS-B1 (9 %)					
Charcoal	360 ± 5%	0,55 ± 5%	355	0,56	0,007
Perle Apricot			356	0,53	0,004
Blanc			367	0,56	0,006
SCREEN PROGRESS-B1 (17 %)					
Charcoal	325 ± 5%	0,56 ± 5%	321	0,59	0,006
Perle Apricot			322	0,60	0,004
Blanc			327	0,59	0,009

m.v. mean value

s standard deviation

./ not received/not measured

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 did not show burning particles/droplets during these tests. Exposing the flame to the front or reverse side did not influence the fire behaviour. (Results: see enclosure 10-12)

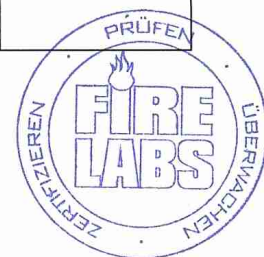


4.2.2 Test results class B1 (Brandschacht)

Table 3.1

Test results "Brandschachtprüfung" (part 1)								
line no.		Test results						requirements
		A	B	C	D	E	F	
1	<u>Number of specimen arrangement</u> acc. DIN 4102 –15 Table 1	1	1	1	1	1	1	
2	<u>Maximal flame height</u> above bottom edge cm	100	90	100	100	90	100	*)
3	Time ¹⁾ min	1	1	1	1	1	1	
4	<u>Burning / melting through</u> Time ¹⁾ min	./.	./.	./.	./.	./.	./.	
5	<u>Back side of the specimens:</u> <u>Flames / glowing</u> Time ¹⁾ min	./.	./.	./.	./.	./.	./.	
6	<u>Discolouring</u> Time ¹⁾ min	1	1	1	1	1	1	
7	<u>Falling of burning droplets</u> Begin ¹⁾ min	No	No	No	No	No	No	
8	Extend: Sporadic falling of burning droplets							
9	Continuous falling of burning droplets							
10	<u>Falling of burning parts</u> Begin ¹⁾ min	No	No	No	No	No	No	
11	Extend: Sporadic falling of burning parts							
12	Continuous falling of burning parts							
13	<u>Afterflame time at the bottom</u> of the sieve (max) min:s	./.	./.	./.	./.	./.	./.	
14	<u>Impairment of the burner</u> <u>flames by dropping or falling</u> <u>Material</u> Time ¹⁾ min:s	No	No	No	No	No	No	
15	<u>Premature end of test</u> Final occurrence of burning at the specimen ¹⁾ min	10	10	10	10	10	10	
16	Time of eventually end of test ¹⁾ min:s	./.	./.	./.	./.	./.	./.	

1) Indication of time: from the beginning of testing procedure
 - Not tested
 ./ Not occurred
 *) No cause for complaint



Test results "Brandschachtprüfung" (part 2)								
line no.		Test results						requirements
		A	B	C	D	E	F	
17	<u>Afterflame after end of test</u> Time min:s	No	No	No	No	No	No	
18	Number of specimen							
19	Front side of specimen							
20	Back side of specimen							
21	Flame length cm							
22	<u>Afterglow after end of test</u> Time min:s	No	No	No	No	No	No	
23	Number of specimen							
24	<u>Place of appearance:</u> Lower half of specimen							
25	Upper half of specimen							
26	Front side of specimen							
27	Back side of specimen							
28	<u>Smoke density</u> ≤ 400 % min	34,4	39,2	37,7	40,0	35,9	36,7	
29	≥ 400 % min (very strong smoke density)	./.	./.	./.	./.	./.	./.	
30	Diagram fig. no.	1	3	5	7	9	11	
31	<u>Residual length</u> Individual value cm	40 40 41 39	38 34 37 40	42 41 38 41	39 35 37 37	40 41 42 39	39 36 37 37	> 0
32	Average value cm	40	37	40	37	40	37	≥ 15
33	Photo of the test specimen fig. no.	2	4	6	8	10	12	
34	<u>Flue gas temperature</u> Maximum of average value. °C	118	109	109	112	103	111	≤ 200
35	Time ¹⁾ min:s	0:18	0:22	0:20	0:22	0:26	0:24	
36	Diagram fig. no.	1	3	5	7	9	11	
37	<u>Remarks:</u> - (Graphs and photos: see enclosures 1 - 3)							

Test specimen	Test-no.	Trade name / colour	Direction of samples
A	670418-001	SCREEN PROGRESS-B1 (3 %) /	warp
B	670418-002	Charcoal	weft
C	670418-003	SCREEN PROGRESS-B1 (3 %) /	warp
D	670418-004	Perle Apricot	weft
E	670418-005	SCREEN PROGRESS-B1 (3 %) /	warp
F	670418-006	Blanc	weft

1) indication of time: from the beginning of testing procedure
 ./ not occurred
 *) no cause for complaint

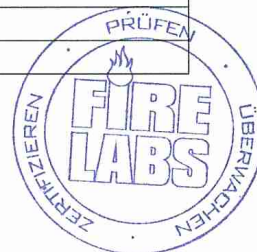


Table 3.2

Test results "Brandschachtprüfung" (part 1)								
line no.		Test results						requirements
		A	B	C	D	E	F	
1	<u>Number of specimen arrangement</u> acc. DIN 4102 –15 Table 1	1	1	1	1	1	1	
2	<u>Maximal flame height</u> above bottom edge cm	80	90	80	90	80	90	*)
3	Time ¹⁾ min	1	1	1	1	1	1	
4	<u>Burning / melting through</u> Time ¹⁾ min	./.	./.	./.	./.	./.	./.	
5	<u>Back side of the specimens:</u> <u>Flames / glowing</u> Time ¹⁾ min	./.	./.	./.	./.	./.	./.	
6	<u>Discolouring</u> Time ¹⁾ min	1	1	1	1	1	1	
7	<u>Falling of burning droplets</u> Begin ¹⁾ min	No	No	No	No	No	No	
8	Extend: Sporadic falling of burning droplets							
9	Continuous falling of burning droplets							
10	<u>Falling of burning parts</u> Begin ¹⁾ min	No	No	No	No	No	No	
11	Extend: Sporadic falling of burning parts							
12	Continuous falling of burning parts							
13	<u>Afterflame time at the bottom of the sieve (max)</u> min:s	./.	./.	./.	./.	./.	./.	
14	<u>Impairment of the burner flames by dropping or falling Material</u> Time ¹⁾ min:s	No	No	No	No	No	No	
15	<u>Premature end of test</u> Final occurrence of burning at the specimen ¹⁾ min	10	10	10	10	10	10	
16	Time of eventually end of test ¹⁾ min:s	./.	./.	./.	./.	./.	./.	

1) Indication of time: from the beginning of testing procedure
 - Not tested
 ./. Not occurred
 *) No cause for complaint



Test results "Brandschachtprüfung" (part 2)								
line no.		Test results						requirements
		A	B	C	D	E	F	
17	<u>Afterflame after end of test</u> Time min:s	No	No	No	No	No	No	
18	Number of specimen							
19	Front side of specimen							
20	Back side of specimen							
21	Flame length cm							
22	<u>Afterglow after end of test</u> Time min:s	No	No	No	No	No	No	
23	Number of specimen							
24	<u>Place of appearance:</u> Lower half of specimen							
25	Upper half of specimen							
26	Front side of specimen							
27	Back side of specimen							
28	<u>Smoke density</u> ≤ 400 % min	30,5	34,7	32,0	32,9	29,6	33,2	
29	≥ 400 % min (very strong smoke density)	./.	./.	./.	./.	./.	./.	
30	Diagram fig. no.	13	15	17	19	21	23	
31	<u>Residual length</u> Individual value cm	44 42 45 46	42 37 41 43	43 43 37 44	45 42 46 45	55 52 42 45	46 42 47 48	> 0
32	Average value cm	44	40	41	44	46	45	≥ 15
33	Photo of the test specimen fig. no.	14	16	18	20	22	24	
34	<u>Flue gas temperature</u> Maximum of average value. °C	105	106	106	109	106	108	≤ 200
35	Time ¹⁾ min:s	10:00	9:56	10:00	10:00	9:12	9:56	
36	Diagram fig. no.	13	15	17	19	21	23	
37	<u>Remarks:</u> - (Graphs and photos: see enclosures 4 - 6)							

Test specimen	Test-no.	Trade name / colour	Direction of samples
G	670418-007	SCREEN PROGRESS-B1 (9 %) /	warp
H	670418-008	Charcoal	weft
I	670418-009	SCREEN PROGRESS-B1 (9 %) /	warp
K	670418-010	Perle Apricot	weft
L	670418-011	SCREEN PROGRESS-B1 (9 %) /	warp
M	670418-012	Blanc	weft

1) indication of time: from the beginning of testing procedure
 ./. not occurred
 *) no cause for complaint

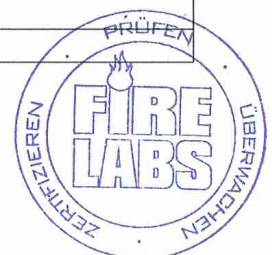
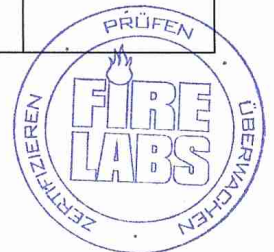


Table 3.3

Test results "Brandschachtprüfung" (part 1)								
line no.		Test results						requirements
		A	B	C	D	E	F	
1	<u>Number of specimen arrangement</u> acc. DIN 4102 –15 Table 1	1	1	1	1	1	1	
2	<u>Maximal flame height</u> above bottom edge cm	90	90	80	80	90	90	*)
3	Time ¹⁾ min	1	1	1	1	1	1	
4	<u>Burning / melting through</u> Time ¹⁾ min	./.	./.	./.	./.	./.	./.	
5	<u>Back side of the specimens:</u> <u>Flames / glowing</u> Time ¹⁾ min	./.	./.	./.	./.	./.	./.	
6	<u>Discolouring</u> Time ¹⁾ min	1	1	1	1	1	1	
7	<u>Falling of burning droplets</u> Begin ¹⁾ min	No	No	No	No	No	No	
8	Extend: Sporadic falling of burning droplets							
9	Continuous falling of burning droplets							
10	<u>Falling of burning parts</u> Begin ¹⁾ min	No	No	No	No	No	No	
11	Extend: Sporadic falling of burning parts							
12	Continuous falling of burning parts							
13	<u>Afterflame time at the bottom</u> of the sieve (max) min:s	./.	./.	./.	./.	./.	./.	
14	<u>Impairment of the burner</u> <u>flames by dropping or falling</u> <u>Material</u> Time ¹⁾ min:s	No	No	No	No	No	No	
15	<u>Premature end of test</u> Final occurrence of burning at the specimen ¹⁾ min	10	10	10	10	10	10	
16	Time of eventually end of test ¹⁾ min:s	./.	./.	./.	./.	./.	./.	

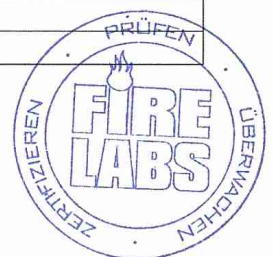
1) Indication of time: from the beginning of testing procedure
 - Not tested
 ./ Not occurred
 *) No cause for complaint



Test results "Brandschachtprüfung" (part 2)								
line no.		Test results						requirements
		A	B	C	D	E	F	
17	<u>Afterflame after end of test</u> Time min:s	No	No	No	No	No	No	
18	Number of specimen							
19	Front side of specimen							
20	Back side of specimen							
21	Flame length cm							
22	<u>Afterglow after end of test</u> Time min:s	No	No	No	No	No	No	
23	Number of specimen							
24	<u>Place of appearance:</u> Lower half of specimen							
25	Upper half of specimen							
26	Front side of specimen							
27	Back side of specimen							
28	<u>Smoke density</u> ≤ 400 % min	26,4	29,1	27,1	29,2	26,7	28,6	
29	≥ 400 % min (very strong smoke density)	./.	./.	./.	./.	./.	./.	
30	Diagram fig. no.	25	27	29	31	33	35	
31	<u>Residual length</u> Individual value cm	46 46 48 43	50 48 47 49	47 48 49 43	47 47 47 46	38 47 55 53	48 47 47 47	> 0
32	Average value cm	45	48	46	46	48	47	≥ 15
33	Photo of the test specimen fig. no.	26	28	30	32	34	36	
34	<u>Flue gas temperature</u> Maximum of average value. °C	108	106	112	109	114	116	≤ 200
35	Time ¹⁾ min:s	0:22	9:42	0:24	9:28	0:28	0:30	
36	Diagram fig. no.	25	27	29	31	33	35	
37	<u>Remarks:</u> - (Graphs and photos: see enclosures 7 - 9)							

Test specimen	Test-no.	Trade name / colour	Direction of samples
N	670418-013	SCREEN PROGRESS-B1 (17 %) /	warp
O	670418-014	Charcoal	weft
P	670418-015	SCREEN PROGRESS-B1 (17 %) /	warp
Q	670418-016	Perle Apricot	weft
R	670418-017	SCREEN PROGRESS-B1 (17 %) /	warp
S	670418-018	Blanc	weft

1) indication of time: from the beginning of testing procedure
 ./. not occurred
 *) no cause for complaint



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.

According to DIN 4102-16:2015-09 section 4.2, this assessment is valid for the fabric described in section 4.2 in any colours, white and black.

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 behavior by outdoor weathering)

has not been proved with this test certificate.

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 valid, as soon as the product is used as a building product in the sense of the "Landesbauordnungen" (state building requirements, 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 non-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 2023-10-31, provided that the test methods, the classification rules and the technology do not change during this period.

Borkheide, 13th of November 2018




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

This translation was issued 13th of November 2018, in a case of doubt the German version is valid solely.

Test specimen A

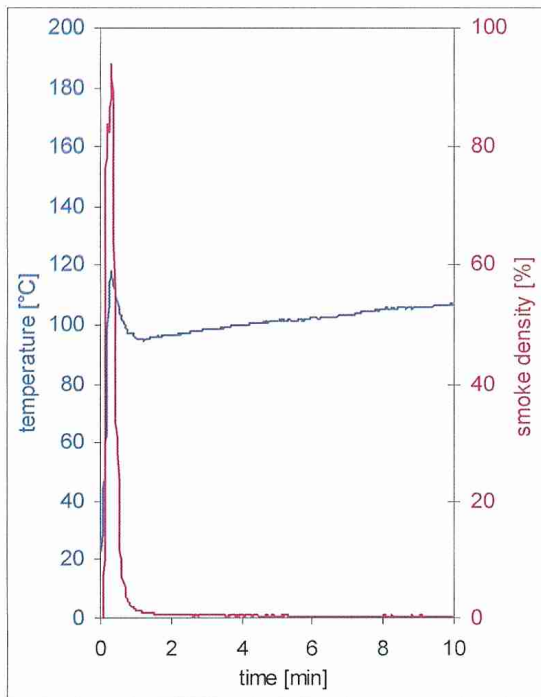


fig. 1
Graphs of the flue gas temperature and smoke density

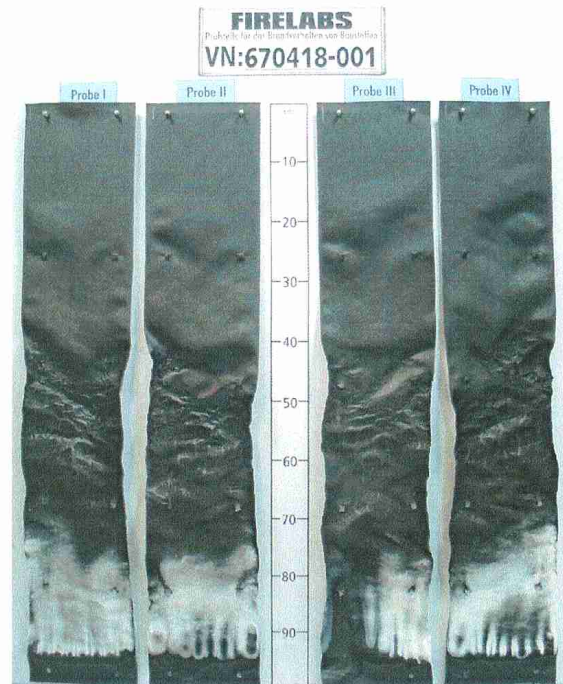


fig. 2
View of test specimen after the test

Test specimen B

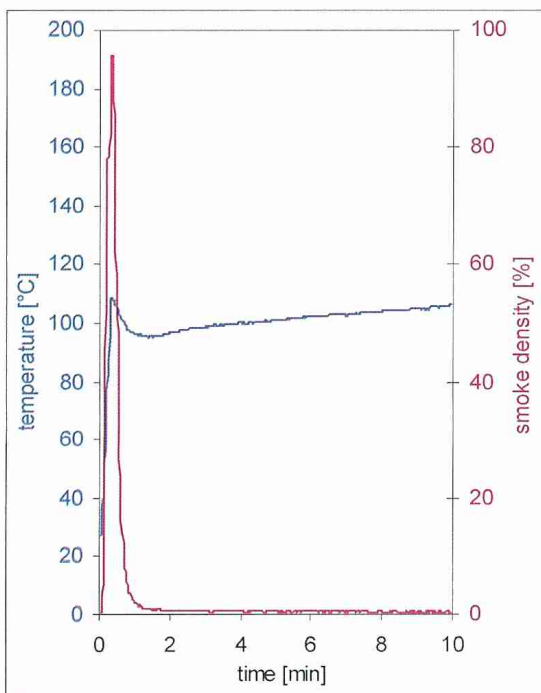


fig. 3
Graphs of the flue gas temperature and smoke density

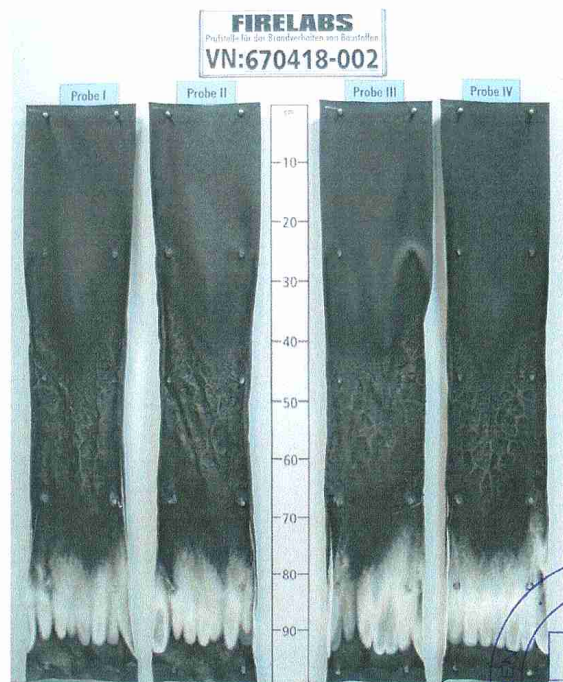


fig. 4
View of test specimen after the test



Test specimen C

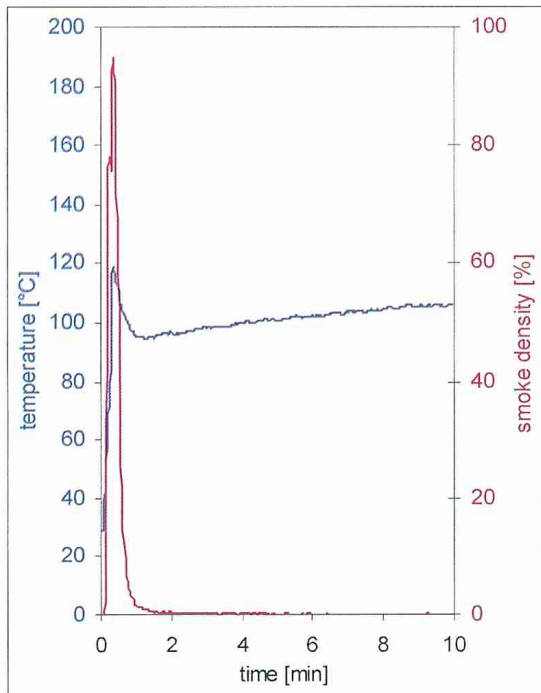


fig. 5
Graphs of the flue gas temperature and smoke density

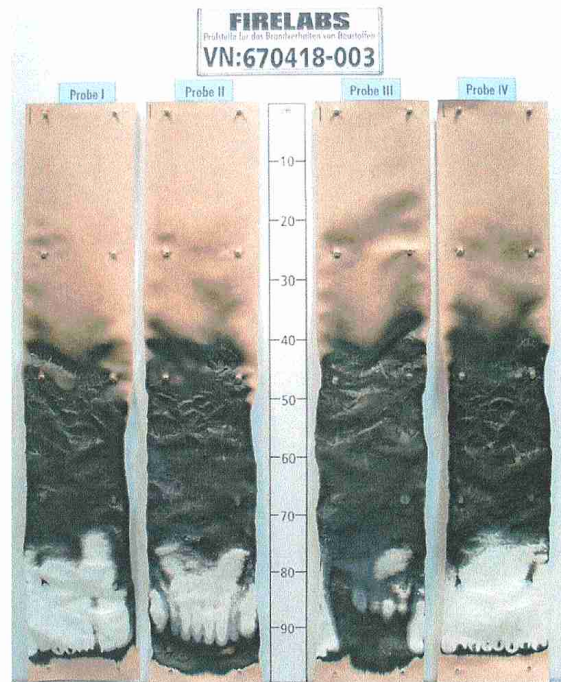


fig. 6
View of test specimen after the test

Test specimen D

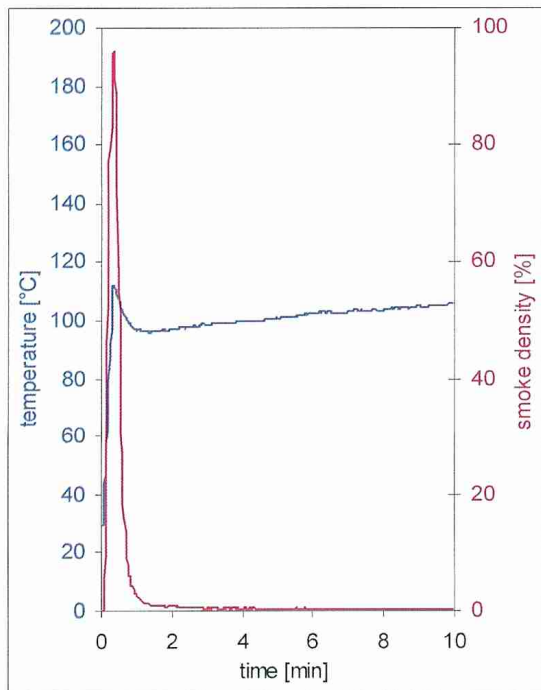


fig. 7
Graphs of the flue gas temperature and smoke density

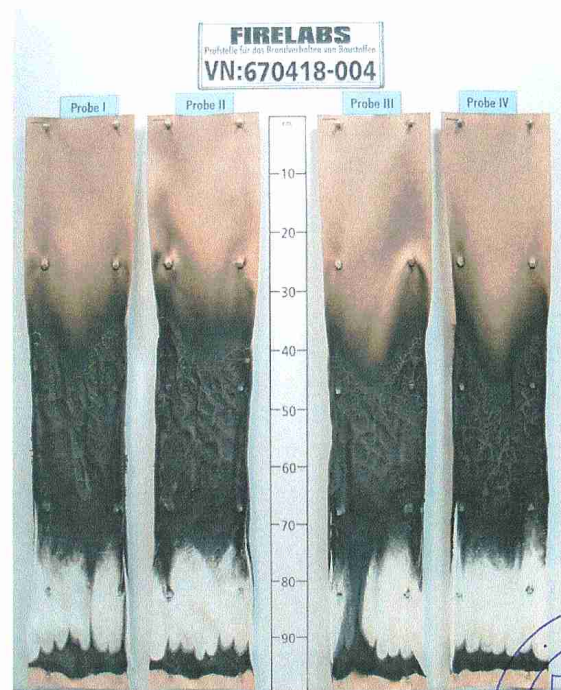


fig. 8
View of test specimen after the test



Test specimen E

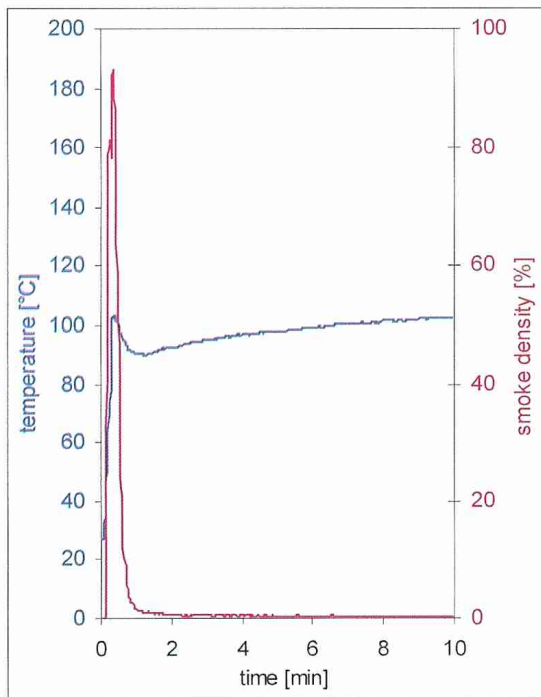


fig. 9
Graphs of the flue gas temperature and smoke density

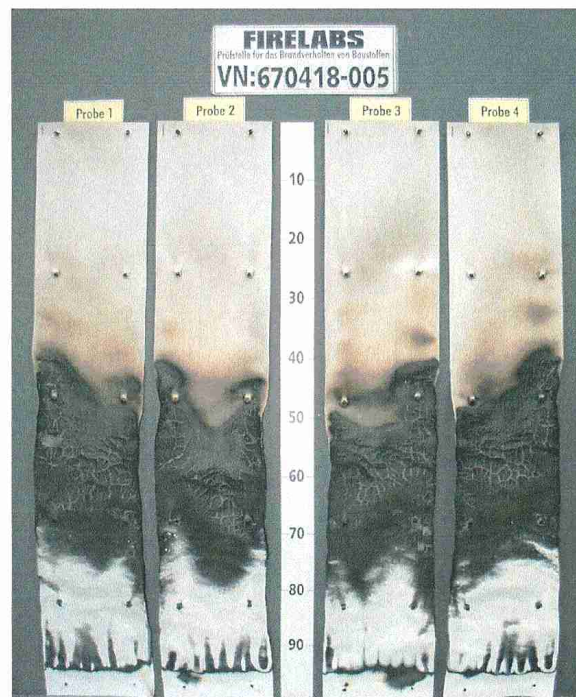


fig. 10
View of test specimen after the test

Test specimen F

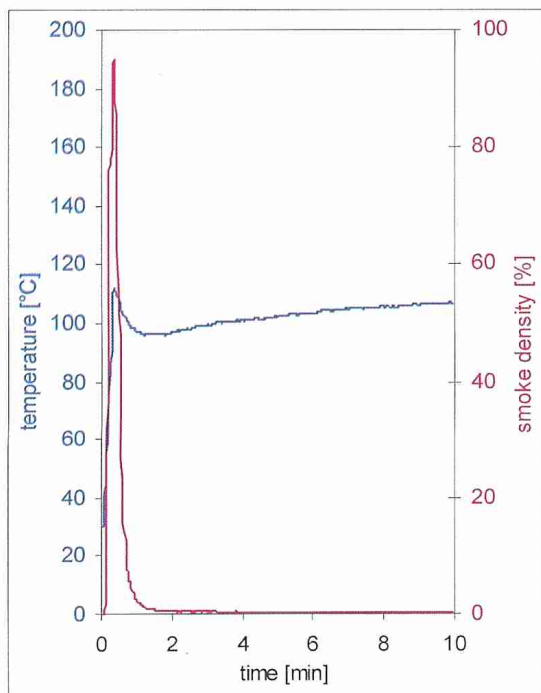


fig. 11
Graphs of the flue gas temperature and smoke density

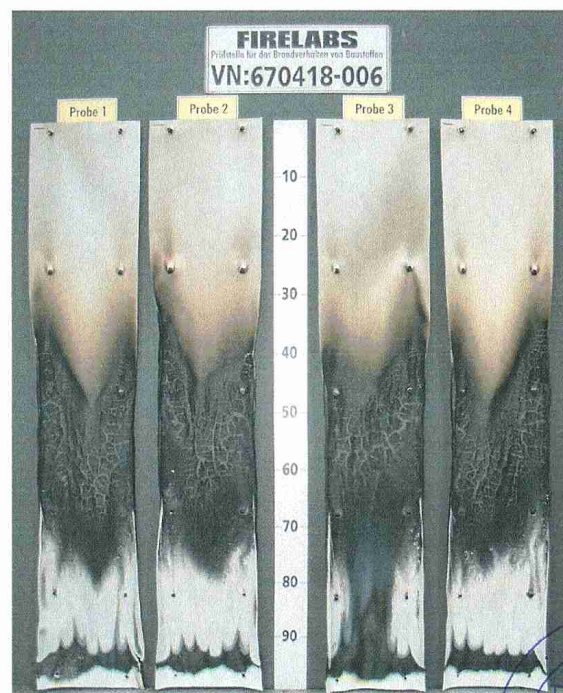


fig. 12
View of test specimen after the test



Test specimen G

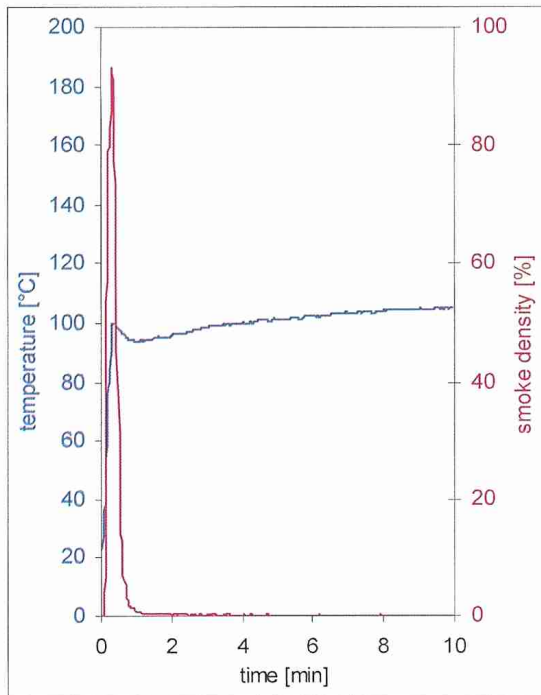


fig. 13
Graphs of the flue gas temperature and smoke density

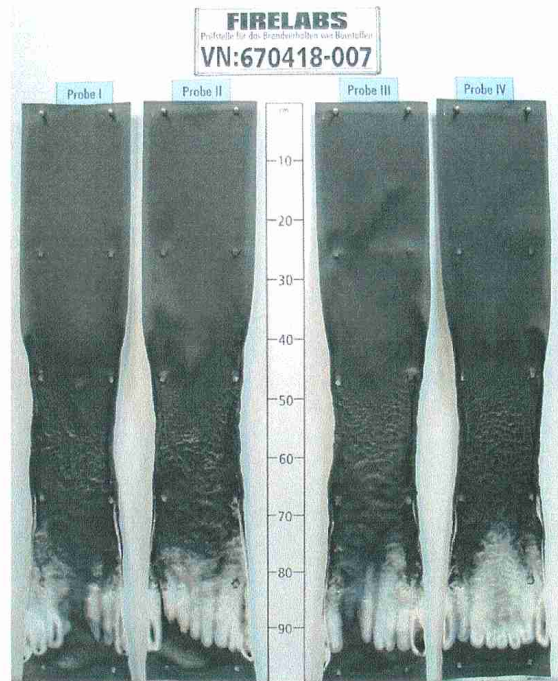


fig. 14
View of test specimen after the test

Test specimen H

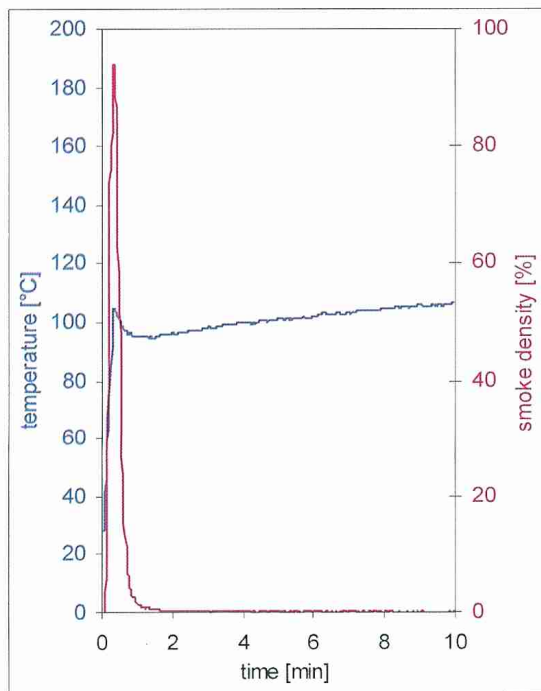


fig. 15
Graphs of the flue gas temperature and smoke density

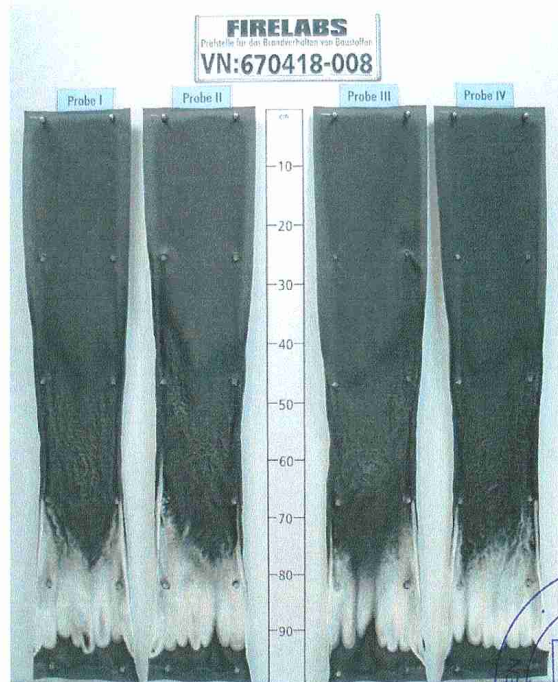


fig. 16
View of test specimen after the test



Test specimen I

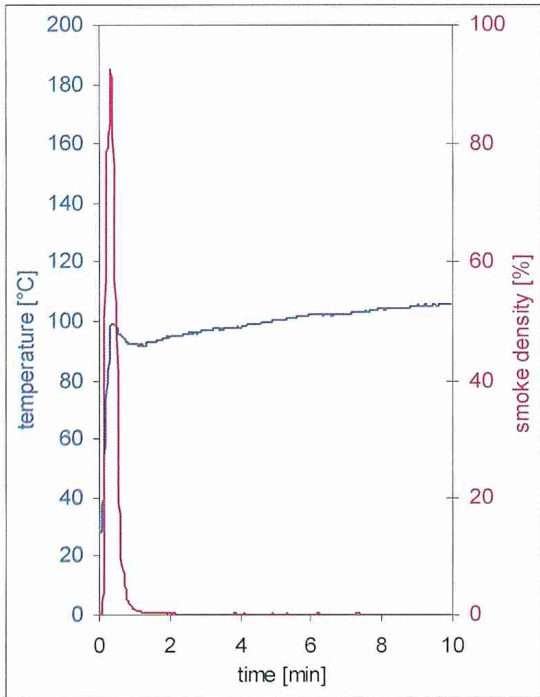


fig. 17
Graphs of the flue gas temperature and smoke density

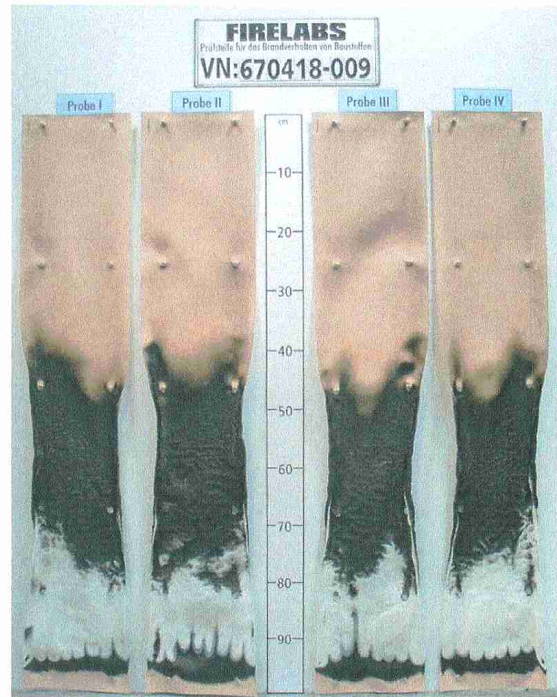


fig. 18
View of test specimen after the test

Test specimen K

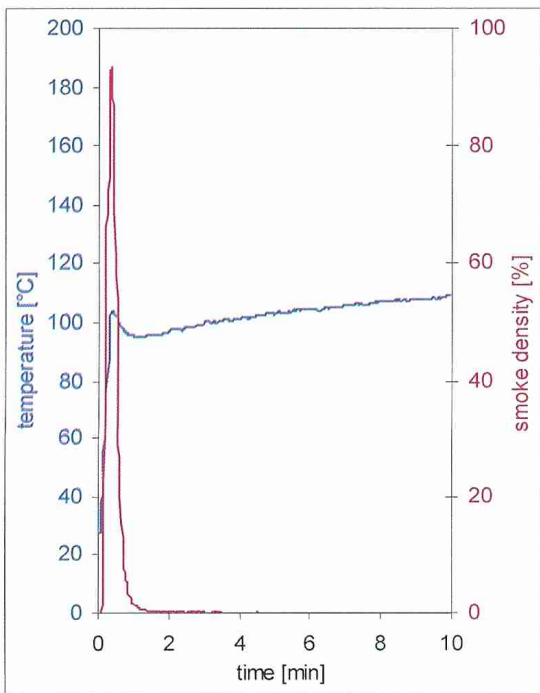


fig. 19
Graphs of the flue gas temperature and smoke density

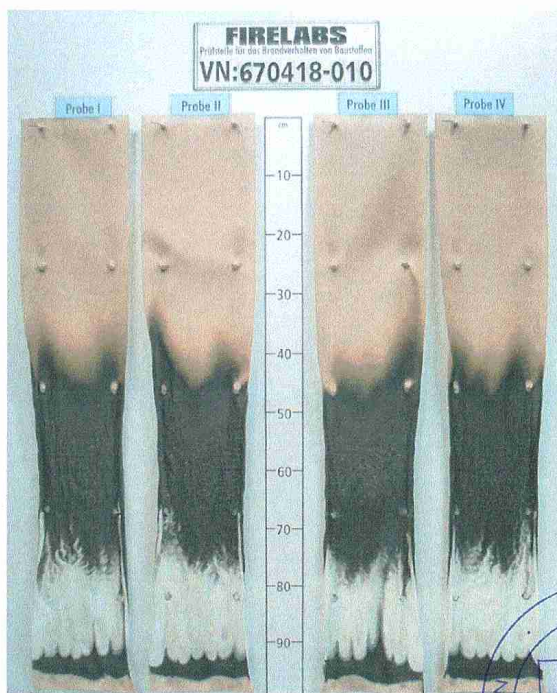


fig. 20
View of test specimen after the test



Test specimen L

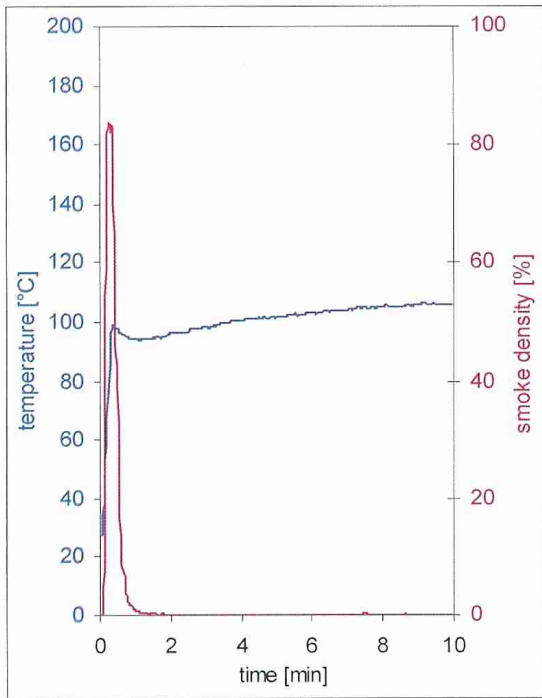


fig. 21
Graphs of the flue gas temperature and smoke density

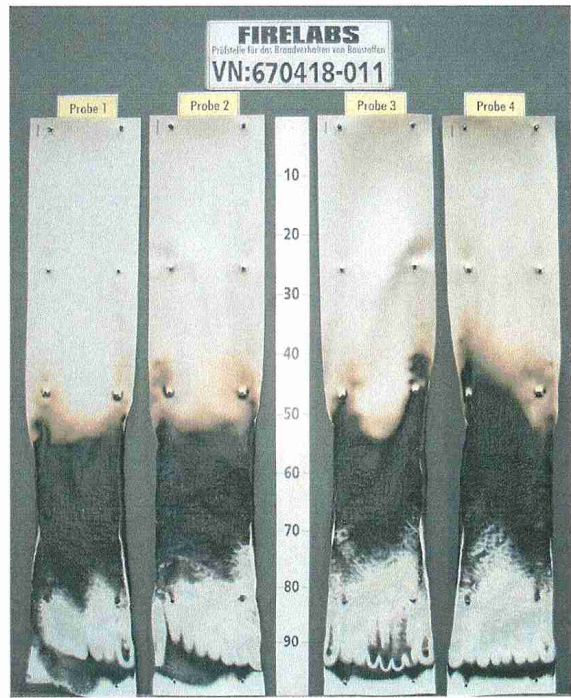


fig. 22
View of test specimen after the test

Test specimen M

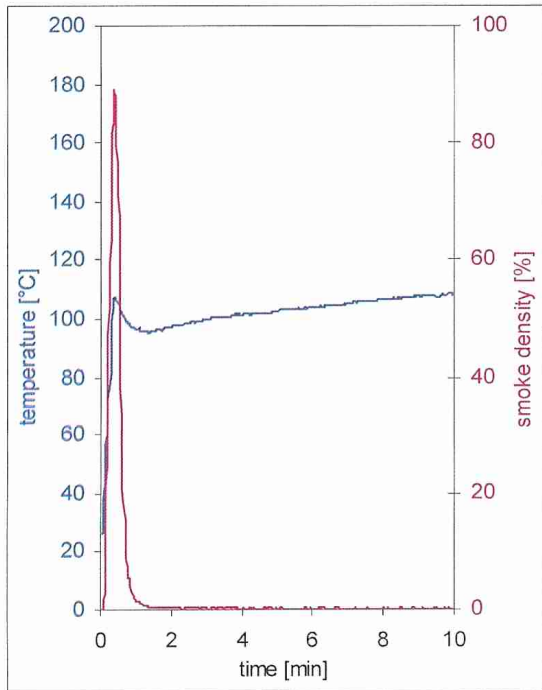


fig. 23
Graphs of the flue gas temperature and smoke density

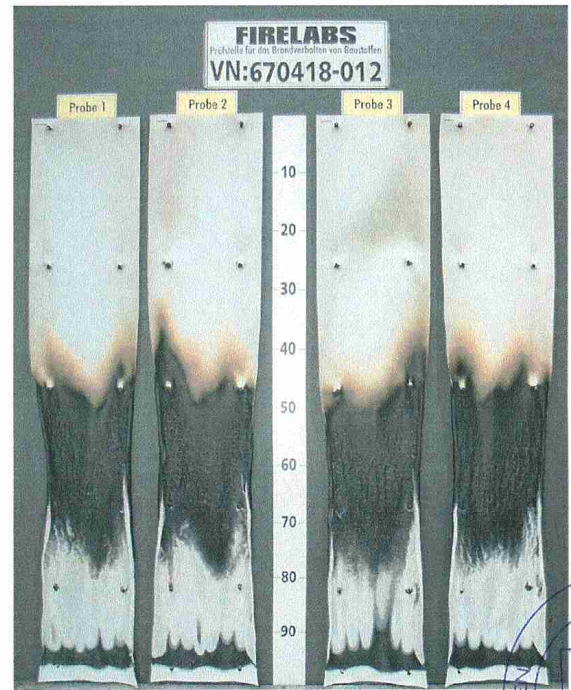


fig. 24
View of test specimen after the test



Test specimen N

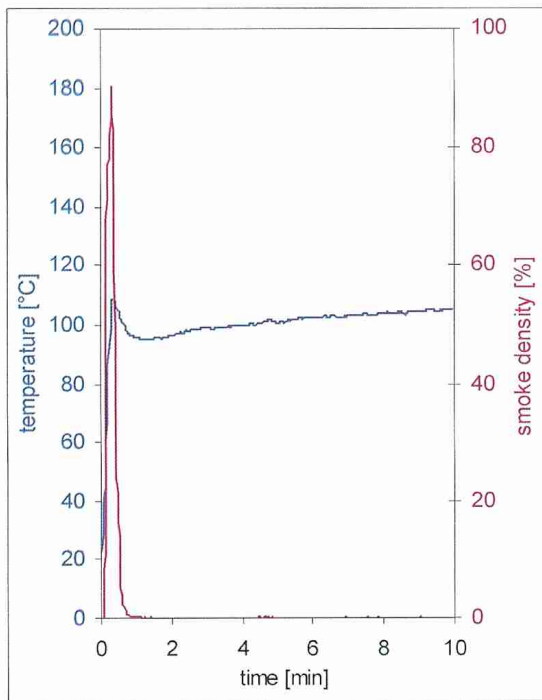


fig. 25
Graphs of the flue gas temperature and smoke density

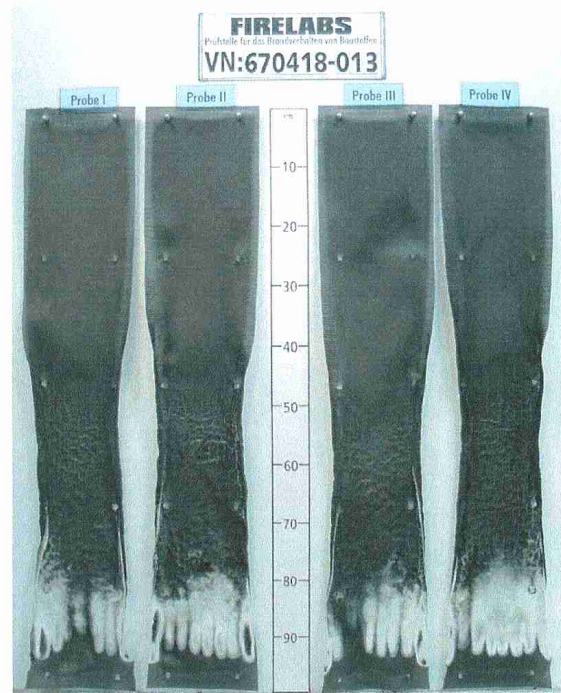


fig. 26
View of test specimen after the test

Test specimen O

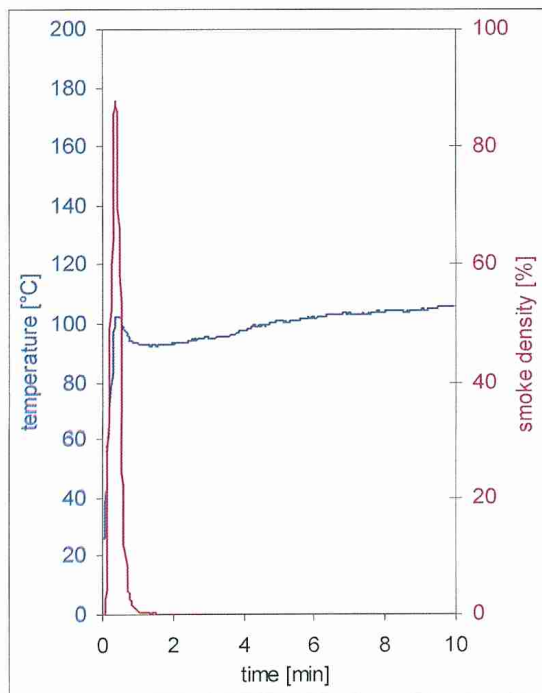


fig. 27
Graphs of the flue gas temperature and smoke density

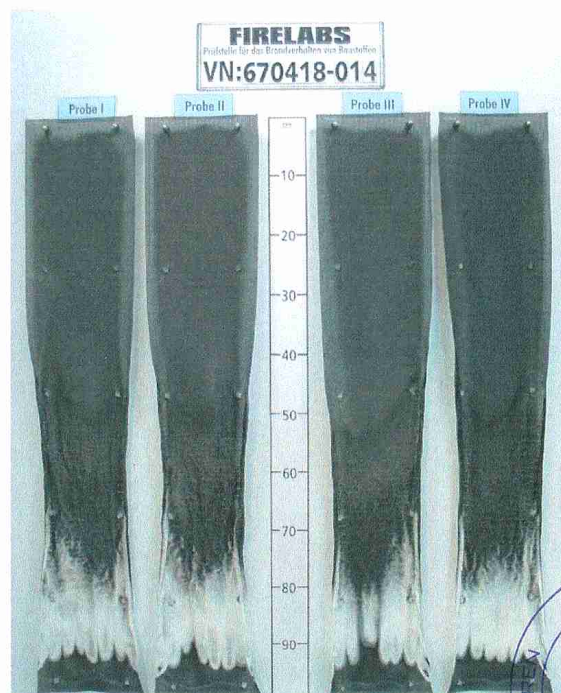


fig. 28
View of test specimen after the test



Test specimen P

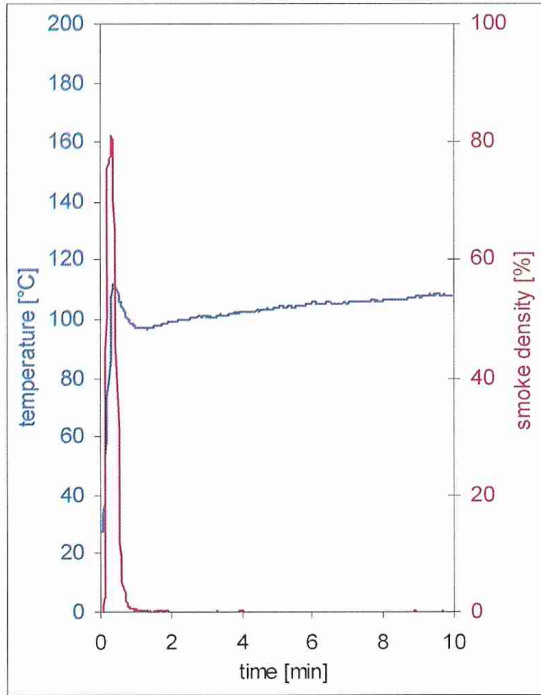


fig. 29
Graphs of the flue gas temperature and smoke density

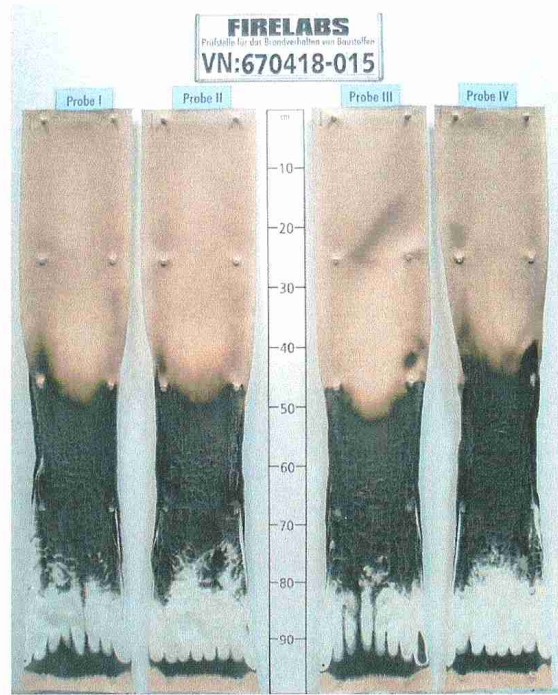


fig. 30
View of test specimen after the test

Test specimen Q

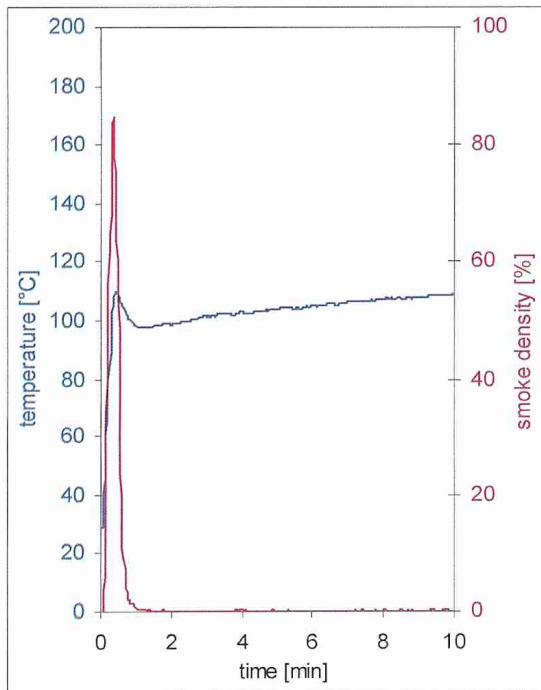


fig. 31
Graphs of the flue gas temperature and smoke density

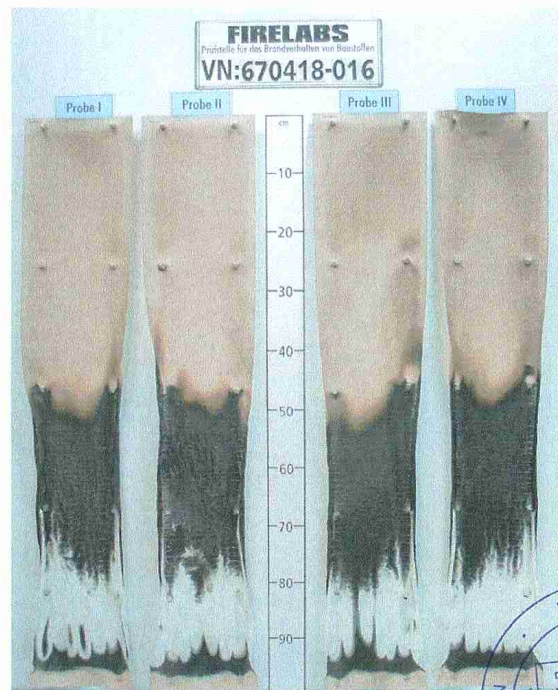


fig. 32
View of test specimen after the test



Test specimen R

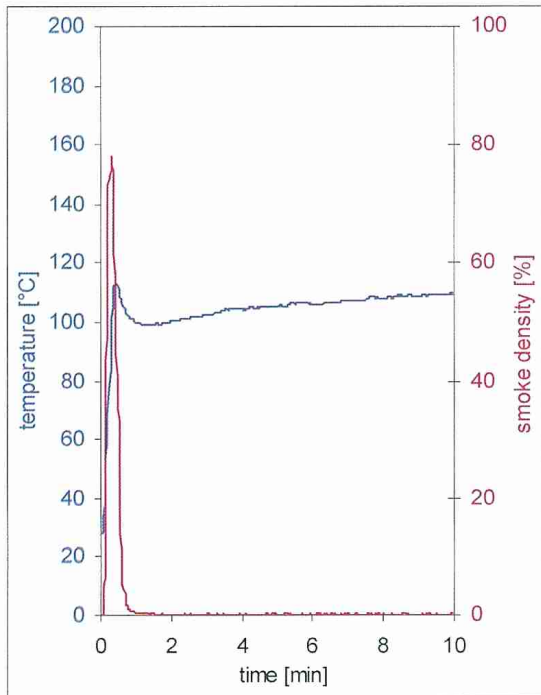


fig. 33
Graphs of the flue gas temperature and smoke density

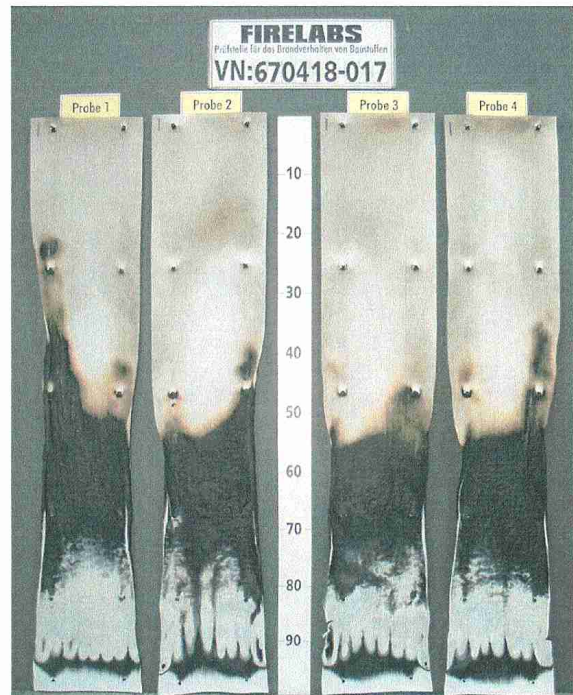


fig. 34
View of test specimen after the test

Test specimen S

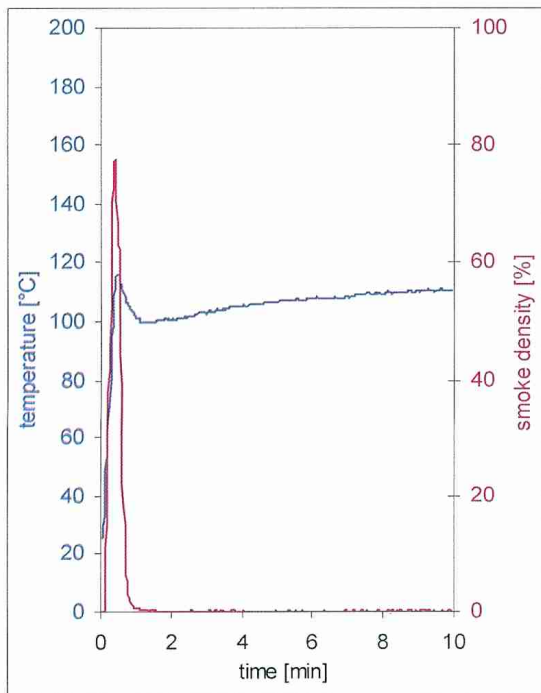


fig. 35
Graphs of the flue gas temperature and smoke density

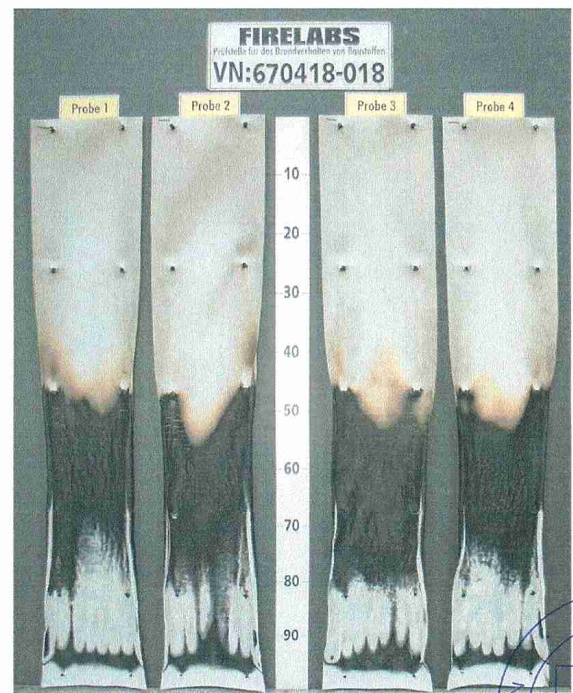


fig. 36
View of test specimen after the test



Test results small burner ("Brennkasten") tests

Table 2.1: complete set of samples

SCREEN PROGRESS-B1 (3 %) Colour-no 3030 (Charcoal)	warp direction								weft direction								dim.	requirements
Sample-No.	1	2	3	4	5	6	-	1	2	3	4	5	6	-	-	-		
Ignition of the sample	1	3	3	3	3	3	-	1	3	3	3	3	3	-	s	-		
Maximum flame height	6	7	8	8	8	8	-	6	7	7	8	8	7	-	cm	-		
Time of the maximum	7	7	8	7	8	8	-	6	8	7	8	8	9	-	s	-		
Flame tip reached the 150 mm mark	./.	./.	./.	./.	./.	./.	-	./.	./.	./.	./.	./.	./.	-	s	≥ 20		
Flames extinguished	16	16	16	16	16	16	-	16	16	16	16	16	16	-	s	-		
Ignition of filter paper	./.	./.	./.	./.	./.	./.	-	./.	./.	./.	./.	./.	./.	-	s	1)		
Smoke density (visual)	moderate								moderate								-	-
Afterburning time	./.	./.	./.	./.	./.	./.	-	./.	./.	./.	./.	./.	./.	-	s	-		
Flames were extinguished after	./.	./.	./.	./.	./.	./.	-	./.	./.	./.	./.	./.	./.	-	s	-		
View of the samples after the test (20 seconds after exposure the flame):																		
- destroyed or burned length max 5 cm, destroyed width approx. 1,5 cm, sooty above until top edge of the samples.																		

Samples 1: edge flame exposure
 Samples 2-6: surface flame exposure

Table 2.2

SCREEN PROGRESS-B1 (3 %)	Colour-no 0771 (Perle Apricot)								Colour-no 0202 (Blanc)								dim.	requirements
Sample-No.	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	-	-
Ignition of the sample	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	s	-
Maximum flame height	1	1	3	3	1	1	3	3	1	1	3	3	1	1	3	3	cm	-
Time of the maximum	6	6	7	7	4	5	7	7	6	6	7	7	4	5	6	6	s	-
Flame tip reached the 150 mm mark	6	6	9	8	6	6	7	8	6	7	8	7	5	6	7	6	s	≥ 20
Flames extinguished	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	s	-
Ignition of filter paper	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	s	1)
Smoke density (visual)	moderate								moderate								-	-
Afterburning time	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	s	-
View of the samples after the test (20 seconds after exposure the flame):																		
- destroyed or burned length max 6 cm, destroyed width approx. 1,5 cm, sooty above until top edge of the samples																		

Samples 1, 2: Edge flame exposure, samples in warp direction
 Samples 3, 4: Surface flame exposure, samples in warp direction
 Samples 5, 6: Edge flame exposure, samples in weft direction
 Samples 7, 8: Surface flame exposure, samples in weft direction

1) No ignition within 20 seconds
 ./. Not occurred
 dim. Dimension

Indication of time: from the beginning of testing procedure
 Indication of measurements: from reference line of the flame



Table 2.3

SCREEN PROGRESS-B1	9 % Colour-no 3030 (Charcoal)								9 % Colour-no 0771 (Perle Apricot)								dim.	requirements
	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8		
Sample-No.	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	-	-
Ignition of the sample	1	1	3	3	1	1	3	3	1	1	3	3	1	1	3	3	s	-
Maximum flame height	5	5	7	7	6	6	7	6	6	6	6	6	6	6	6	6	cm	-
Time of the maximum	6	7	6	6	5	4	7	7	6	6	7	6	4	5	7	7	s	-
Flame tip reached the 150 mm mark	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	s	≥ 20
Flames extinguished	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	s	-
Ignition of filter paper	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	s	1)
Smoke density (visual)	moderate								moderate								-	-
Afterburning time	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	s	-
View of the samples after the test (20 seconds after exposure the flame):																		
- destroyed or burned length max 5 cm, destroyed width approx. 1,5 cm, sooty above until top edge of the samples																		

Table 2.4

SCREEN PROGRESS-B1	9 % Colour-no 0202 (Blanc)								17 % Colour-no 3030 (Charcoal)								dim.	requirements
	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8		
Sample-No.	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	-	-
Ignition of the sample	1	1	3	3	1	1	3	3	1	1	2	2	1	1	3	3	s	-
Maximum flame height	6	6	7	7	7	7	7	7	5	5	6	6	7	6	7	6	cm	-
Time of the maximum	6	7	7	7	5	6	7	7	6	7	6	7	6	7	6	6	s	-
Flame tip reached the 150 mm mark	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	s	≥ 20
Flames extinguished	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	s	-
Ignition of filter paper	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	s	1)
Smoke density (visual)	moderate								moderate								-	-
Afterburning time	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	s	-
View of the samples after the test (20 seconds after exposure the flame):																		
- destroyed or burned length max 6 cm, destroyed width approx. 2 cm, sooty above until top edge of the samples																		

Samples 1, 2: Edge flame exposure, samples in warp direction
 Samples 3, 4: Surface flame exposure, samples in warp direction
 Samples 5, 6: Edge flame exposure, samples in weft direction
 Samples 7, 8: Surface flame exposure, samples in weft direction

1) No ignition within 20 seconds
 ./. Not occurred
 dim. Dimension

Indication of time: from the beginning of testing procedure
 Indication of measurements: from reference line of the flame

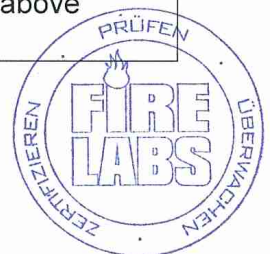


Table 2.5

SCREEN PROGRESS-B1	17 % Colour-no 0771 (Perle Apricot)								17 % Colour-no 0202 (Blanc)								dim.	requirements
	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8		
Sample-No.	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	-	-
Ignition of the sample	1	1	3	3	1	1	3	3	1	1	3	3	1	1	3	3	s	-
Maximum flame height	5	5	7	7	5	5	6	6	6	6	7	6	5	5	7	6	cm	-
Time of the maximum	6	6	6	6	5	6	6	6	6	6	6	6	6	6	7	7	s	-
Flame tip reached the 150 mm mark	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	s	≥ 20
Flames extinguished	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	s	-
Ignition of filter paper	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	s	1)
Smoke density (visual)	moderate								moderate								-	-
Afterburning time	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	./.	s	-

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

- destroyed or burned length max 6 cm, destroyed width approx. 1,5 cm, sooty above until top edge of the samples

Samples 1, 2: Edge flame exposure, samples in warp direction
 Samples 3, 4: Surface flame exposure, samples in warp direction
 Samples 5, 6: Edge flame exposure, samples in weft direction
 Samples 7, 8: Surface flame exposure, samples in weft direction

1) No ignition within 20 seconds

./. Not occurred

dim. Dimension

Indication of time: from the beginning of testing procedure

Indication of measurements: from reference line of the flame

