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Environmental Lab



Materials Lab



Fire Lab



New Technologies

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Summary report no. P60-16-8099en**Fire testing**

Order number: 60-16-0491
Date: 16.09.2016
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This report consists of
3 page(s) and 0 enclosure(s).

Fon: 03302 49982 60

Delivery date specimen: 24.08.2016

Test date: 31.08.2016 to 13.09.2016

Test specimen: PYRO-SAFE DG-S
Order number: Answer fax from
Order date: 19.08.2016

Test specification: Test methods of requirement set R1/R7 according to
DIN EN 45545-2 (02/2016) „Railway applications – Fire protection on
railway vehicles – Part 2: Requirements for fire behavior of materials
and components“

Objective: Evaluation according to DIN EN 45545-2 (02/2016)
Requirement set R1/R7 (see table 5 – Set of material requirements)

Test results: **With the obtained test results, the material reached for the
requirements following Hazard Level:**
- Requirement R1: Hazard Level 3 (HL3)
- Requirement R7: Hazard Level 3 (HL3)

Remark: The classification is valid only in conjunction with the test reports listed
on page 2 and 3. Please refer to the test reports for details.


Stefan Harder
Head of Fire Lab

The results refer only to the specimens mentioned above.
This Test Report must always be copied entirely. Any copying of extracts and publication require the prior consent of the Laboratory.

1 Details about the specimens

Material or combination of materials:

1mm Aluminiumblech – Epoxyprimer – 500µm PYRO-SAFE DG-S
1mm Aluminiumblech – Epoxyprimer – 1500µm PYRO-SAFE DG-S
color: anthracite

Manufacturer:

svt Brandschutz Vertriebsgesellschaft mbH
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Glüsinger Straße 86
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Dimensions of sample:

800mm x 155 mm x 1,5 mm	800mm x 155 mm x 2,2 mm
100mm x 100mm x 1,6mm	100mm x 100mm x 2,3mm
75mm x 75mm x 1,5mm	75mm x 75mm x 2,4mm

Side of specimen to be tested by flame:

coated side

2 Summary of results

The material was tested for use in railway vehicles, requirement set R1/R7
(Table 5 DIN EN 45545-2).

PYRO-SAFE DG-S 500µm

Test report no.	Reference method	Standard	Parameter	Unit	Result	HL R1	HL R7
P60-16-0648en	T02	ISO 5658-2	CFE	kWm ⁻²	50,3	3	3
P60-16-5320en	T03.01	ISO 5660-1	MARHE	kWm ⁻²	9,8	3	3
P60-16-4317en	T10.01	EN ISO 5659-2	Ds(4)	dimensionless	13	3	-
	T10.02	EN ISO 5659-2	VOF4	min	28	3	-
	T10.04	EN ISO 5659-2	Dsmax	dimensionless	26	-	3
P60-16-3458en	T11.01	EN ISO 5659-2	CIT	dimensionless	0,39	3	3

PYRO-SAFE DG-S1500 μ m

Test report no.	Reference method	Standard	Parameter	Unit	Result	HL R1	HL R7
P60-16-0649en	T02	ISO 5658-2	CFE	kWm ⁻²	48,9	3	3
P60-16-5321en	T03.01	ISO 5660-1	MARHE	kWm ⁻²	22,9	3	3
P60-16-4318en	T10.01	EN ISO 5659-2	Ds(4)	dimensionless	37	3	-
	T10.02	EN ISO 5659-2	VOF4	min	64	3	-
	T10.04	EN ISO 5659-2	Dsmax	dimensionless	94	-	3
P60-16-3460en	T11.01	EN ISO 5659-2	CIT	dimensionless	0,57	3	3

The Hazard Level HL depends on the operation category and design category according to DIN EN 45545-2 Table 1.

Operation category	Design category			
	N: Standard vehicles	A: Automatic vehicles having no emergency trained staff on board	D: Double decked vehicle	S: Sleeping and couchette cars double decked or single deck
1	HL1	HL1	HL1	HL2
2	HL2	HL2	HL2	HL2
3	HL2	HL2	HL2	HL3
4	HL3	HL3	HL3	HL3