TESTING THE WORLD
FOR TOMORROW

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Test Report No. P60-16-0639en

Firetesting

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This report consists of
5 page(s) and 0 enclosure(s).

Fon: 03302 49982 60

Delivery date specimen: 22.08.2016

Test date: 29.08.2016

Test specimen: AEROSTYLE Pyrojacket PJA 08
Order number: C5905
Order date: 16.08.2016

Relevant specification: Examination according to DIN 54837 (12/2007)
"Testing of material, small parts and components for rail vehicles"
"Determination of burning behavior using a gas burner"

Objective: Evaluation according to DIN 5510, part 2 (05/2009)

Test results:

Inflammability class:	S 4
Smoke development class:	SR 2
Class of the capacity of forming drops:	ST 2

Note:
According DIN 5510 part 2, chapter 5.2.1 the presented test report for requiring component parts by delivery must not older than three years.

Stefan Harder
Head of Fire Lab

1 Details about the specimens

Material or combination of materials:

AEROSTYLE Pyrojacket PJA 08

Manufacturer:

ADL Insulflex, Inc.
8783 Dale Road
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Canada

Dimensions of sample:

length [mm]:	503
width [mm]:	25
thickness [mm]:	3,3
weight [g]:	80,8
(Average value of all samples)	

Side of specimen to be tested by flame:

outside

Environmental conditions:

air temperature [°C]:	26
rel. humidity [%]:	49

2 Test equipment

The test and measuring instruments as well as the calibrations status were checked before using.

Test instruments	Id.-No.
Large burning cabinet acc.DIN 50050, part 2	79927413

Sign
Test engineer:

3 Results

Conditioned in laboratory: 23 °C ± 2 °C / 50 % ± 5% r.F.

Duration of acclimatization: > 48 h

Test chamber: Big combustion box in accordance with DIN 50050, part 2

Table 1 - result overview

			1	2	3	4	5	average
Ignition of sample	Time	[s]	13	11	8	16	18	
Afterburning of sample		[s]	-	5	5	10	7	5
Afterglow of sample		[s]	-	-	-	-	-	
Height of flames	Maximum	[cm]	7	8	8	8	7	
	Reached after	[s]	70	80	75	60	60	
Falling - off of parts of sample	Falling	[yes/no]	no	no	no	no	no	
	Burning, duration of burning	[s]	-	-	-	-	-	-
Smoke density	Maximum	[%]	1,2	1,2	1,7	4,1	1,0	1,9
	reached after	[s]	188	185	187	189	191	188
	Integral	[% x min]	2,0	2,2	2,8	4,1	2,0	2,6
Destroyed area	Length	[cm]	11	11	9	11	10	10,4
Fire on sample extinguished	Time	[s]	-	-	-	-	-	
Burning through of the sample		[yes/no]	no	no	no	no	no	

if not applicable "-"

Notes: none

Sign
Test engineer:

4 Short description of the test method according to DIN 54837

The surface (5 cm of the lower edge) of a vertically arranged test sample will be exposed to the flame of a gas burner during 3 minutes. After removing the flame, the test sample is observed for added 2 minutes. The duration of the after burning, the smoke density and the dropping behavior will be evaluated. On following the size is measured of the area destroyed by the fire of the test sample.

Requirements to the average values for the classification according to DIN 5510, part 2:

Table 2 - Inflammability class (S 2 to S 5)

Inflammability class	Length of the destroyed area [cm]	Duration of after burning [s]
S 2	≤ 30	Further burning until the test end is admissible, afterwards it will be extinguished
S 3	≤ 25	≤ 100
S 4	≤ 20	≤ 10
S 5	0	0

Table 3 - Smoke-development-classes (SR 1 and SR 2)

Smoke-development-class	Integral of the luminous attenuation [% x min]
SR 1	≤ 100
SR 2	≤ 50

Table 4 - Class of the capacity of forming drops (ST 1 and ST 2)

Class of the capacity of forming drops	Observations
ST 1	drops or apostatizes burning
ST 2	drops or apostatizes not or not afire (Dripping of with burning duration ≤ 20 s admissible)

Sign
Test engineer:

5 Visual Documentation

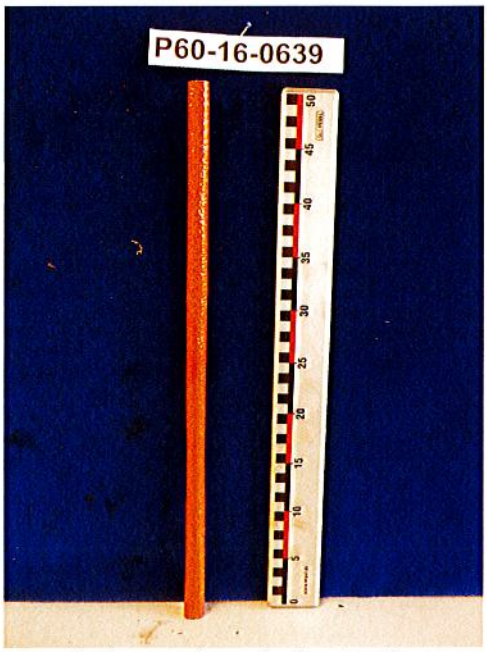

Fig.1 - specimen before testing

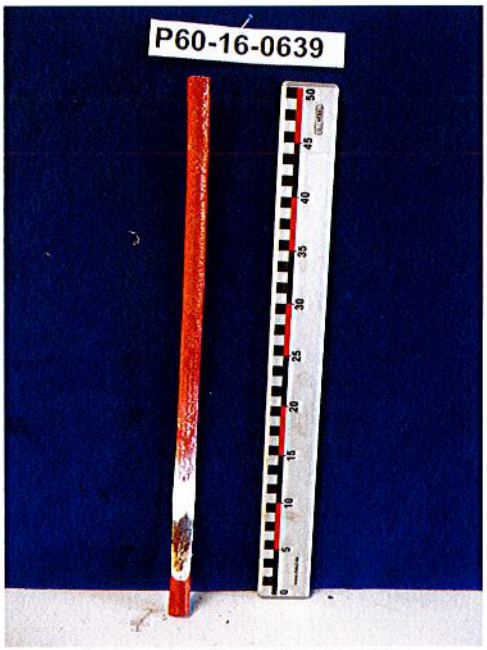

Fig.2 - specimen after testing

Sign
Test engineer: