Bayer Industry Services

Bayer Industry Services GmbH & Co. OHG
SUA SPA Brandtechnologie
Gebäude B411
D-51368 Leverkusen

Test report 04/315

Testing the burning behaviour of fire prevention coating according to IEC 60332-3-22, Category A/F, First edition 2000/10

Customer	:	Cognis Deutschland GmbH & Co.KG Herr Graf Robert Hansen Straße 1 D-89257 Illertissen

14 July 2004

Specimendescription

Specimenname	:	PVC Cable with KBS Coating		
Description	:	Cable-Type: NYM-J 5 x 1.5; wire from PVC grey ; 1.2 mm KBS Coating		
Fire load	:	[l/m] 7	Combustible volume :	[l/m] 0,0835
Conditioning	:	>24 h to 23° C/ 50 % r.F.		
Building layout	:	84 Cable in tree tiers	Diameter :	[mm] 10.8
Order-No.	:	T40219		
Goods receipt	:	2004-07-02	Date of test :	2004-07-07
Operator	:	Günter Strompen		

Testresult

In the test on July 07nd 2004 the test sample fullfilled the requirements of Category A/F. The maximum of the burn length was 0.93m.

Michael Halfmann

Bayer Industry Services
Brandtechnologie

Günter Strompen

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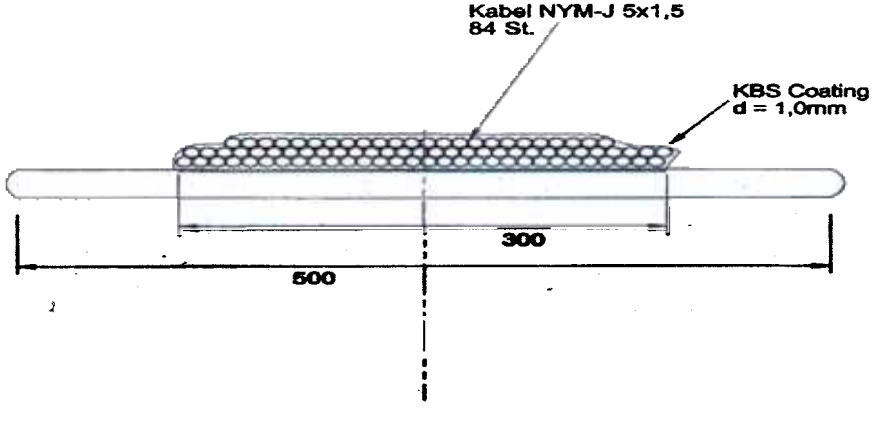
Burner rating: 73.7±1.68 MJ/h Atmospheric pressure: P_{amb} 1012 mbar			Flow rate target	Flow rate actual
Propane:	20° C	6 mbar	0.794 m³/h	0.795 m³/h
Air:	26° C	27 mbar	4.579 m³/h	4.490 m³/h

	Flame height [m]	Observation
1	0.6	Carbonisation the material in the area of burner flame flame
2	1.0	Glowing in the area of burner
	1.2	Bursting in the area of burner flame
11	1.2	Bursting in the area ca. 40 cm above the burner
19	0.8	Flame to reduce
24	0.8	Bursting in the left most position
34	0.6	Flame to reduce
40	**0.2**	**Burner off.** 20 cm flame ca. 40 cm abover the burner, middle smoke production
41	0.1	10 cm flames ca 40 cm abover the burner
42	0	Flames out

Requirement: Damage at the front or back side (measured from the lower edge of the burner) ≤ 2.5 m

Result: **Damage at the front: 0.93 m**
Damage at the back: 0.0 m



Test construction

Pictures of the test

Figure1: Fixed on the ladder

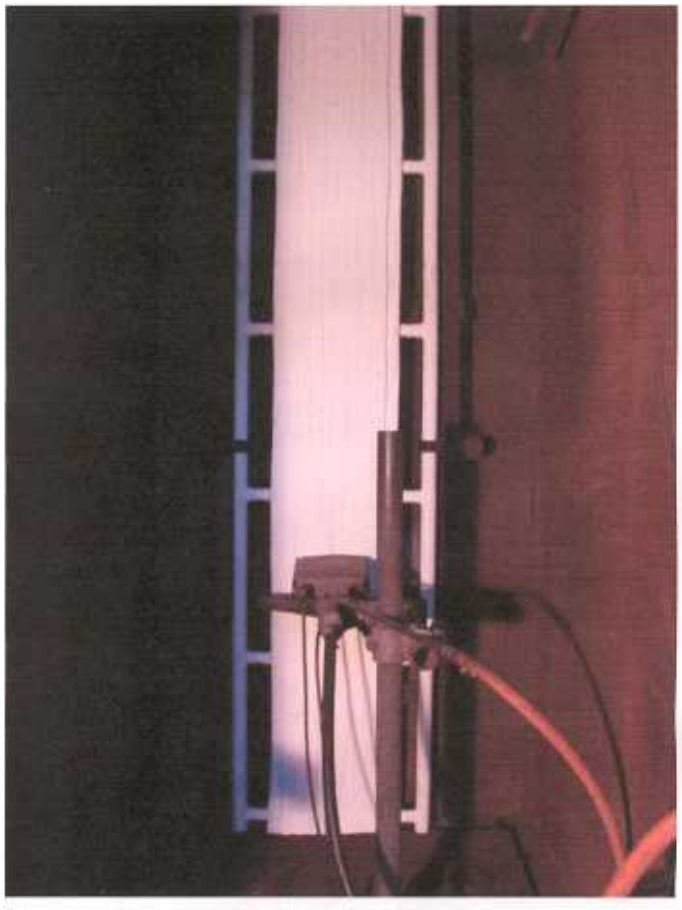


Figure.2: Mounted in the test stand

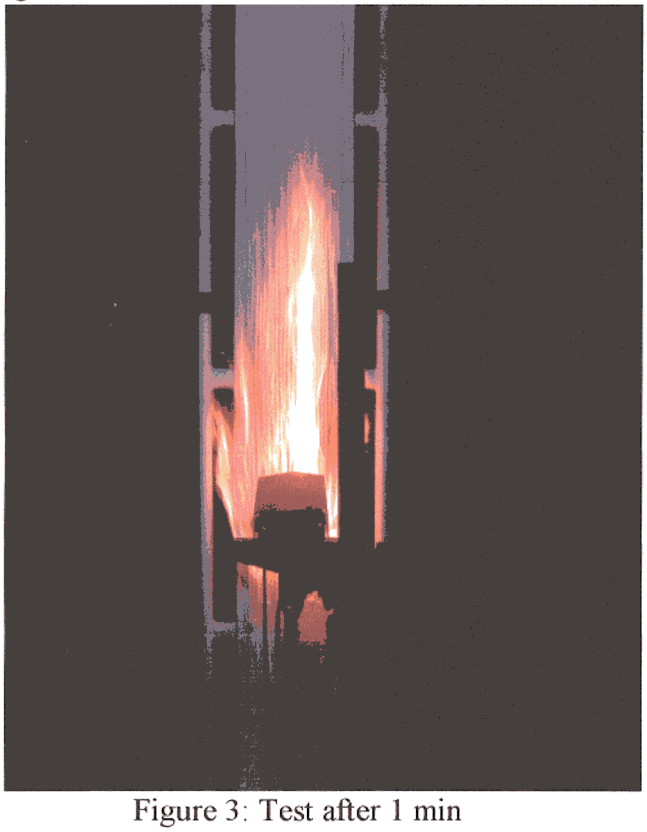


Figure 3: Test after 1 min

Figure 4: Test after 14 min

Figure 5: Test after 22 min

Figure 6: Test after 25 min

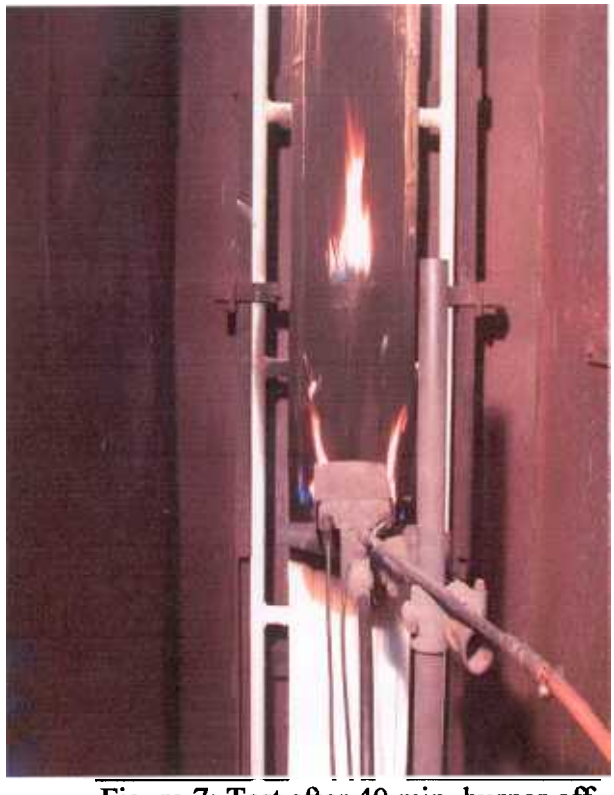


Figure 7: Test after 40 min, burner off

Figure 8: Test after 41‘ 30“ min

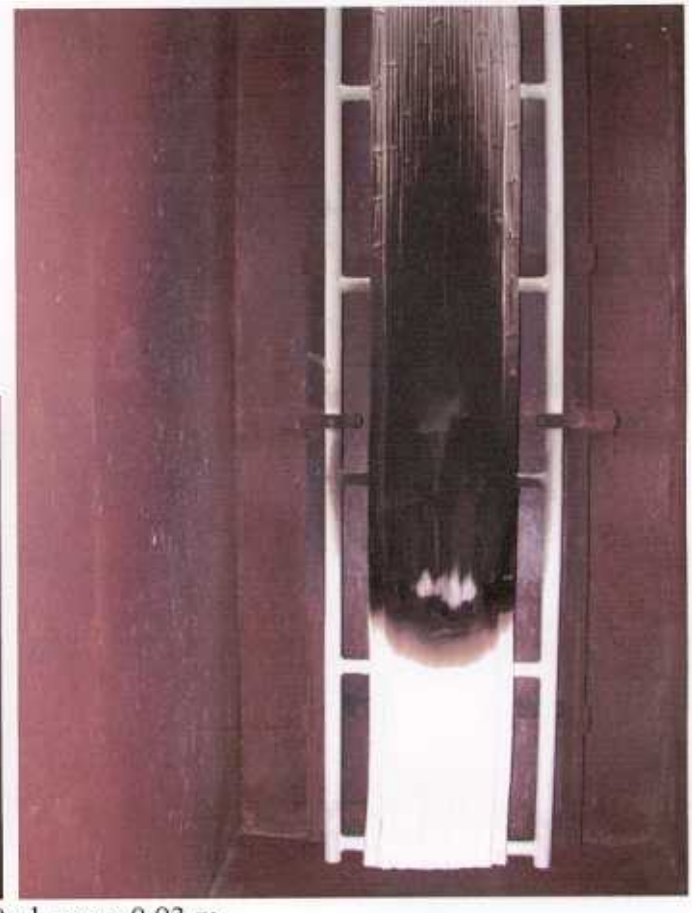


Figure 9 and 10: damage 0.93 m