



FLAMEPROOF CERTIFICATE

Products:

paper or pvc streamers and confetti products of HIGHLITE INTERNATIONAL B.V.

Purpose of test:

Examination of streamers and confetti products of HIGHLITE INTERNATIONAL B.V. on reaction to fire performance in accordance with EN 11925-2:2002 - Ignitability.

Test reports are made by:

TNO – Centre for fire research
Van Mourik Broekmanweg 6
P.O. Box 49
2600 AA Delft
THE NETHERLANDS

Flame Guard b.v. (member of AFG Group)

Hulzenseweg 10-20
P.O. Box 6572
6503 GB Nijmegen
THE NETHERLANDS

Contractor, manufacturer and production site:

HIGHLITE INTERNATIONAL B.V.
Vestastraat 2
6468 EX Kerkrade
THE NETHERLANDS

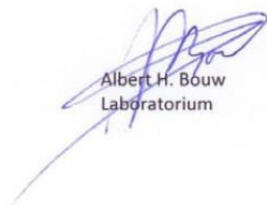
Dates of examination:

April 27, 2004
June 22, 2011

Period of report issue and report number:

July 2004; 2004-CVB-R0194.
June 2011; FGS/PV/AB/3538

The certificate is approved by:


Albert H. Bouw
Laboratorium





Dr. F. Paap

**Conclusion:**

Based on the testing results which meet the criteria stated in the law, may be concluded that this can be considered as "not easy flammable".

A formal classification is to be assessed in accordance with the EN 13501-1, "Classification using fire reaction tests". Based on the test results, a classification "E" is foreseen.

Product description:

HIGHLITE INTERNATIONAL B.V. has two types of streamers and confetti products in their assortment:

- Streamers/confetti of FR-treated tissue paper, specific weight 20 g/m² (measured value)
- Streamers/confetti of metallic-PVC film, specific weight 35 g/m² (measured value)

Short Description NEN EN ISO 6941:

The material is subjected to a research according to the norm of NEN EN ISO 6941:2004

Samples:

Between receiving the samples on March 15, 2004 and the test the samples were conditioned at 23°C and 50% relative humidity.

On June 22, 2011 the test samples were conditioned at 20°C and 65% relative humidity.

Examination:

A total of three tests were carried out on each product. For reasons of sample dimensions, the tests were performed on the streamer (long strips) version of the products.

The materials supplied by HIGHLITE INTERNATIONAL B.V. are subjected to the research according to the standard sheet of NEN ISO 6941:2004 "textile-firebehaviour-measurement of flame spread properties of vertically mounted specimens"

A short description of this norm and the test results are described in the attachments of this document.

Compliance with Dutch regulations:

Local regulations in the Netherlands state the following flammability requirements for vertically suspended textile products like curtains and drapes:

After flame < 15 s, and afterglow < 60 s, when tested following ISO 6940/6941 with 10 seconds flame exposure.

- Based on the test results presented in this test report, the tested products PVC and PAPER streamers and confetti from HIGHLITE INTERNATIONAL B.V. comply with the fire safety regulations for vertically suspended textile products in the Netherlands.

Given the resistance to ignition, use of these products in sensible amounts can be regarded as fire safe.

Based on the experience of both TNO and Flame Guard b.v. (member of AFG Group) we can say that it also meets the standards of the M1 classification according to norm NF P 92-503, the German norms DIN 54336, DIN 66082, DIN 4102 (B1) and the British norms BS 5852 Part 2 (source 2 till 5), BS 5438 and BS 5867.

This document only doesn't certify these norms.



Test results according to NEN EN ISO 6941:

Product discription	Ignition time (sec)	Cloth weight (g/m2)	Time by brand* (sec)			Afterflame (sec)	Afterglow (sec)	Drops/ burning
			1	2	3			
Confetti / Streamers Paper (tissue material)	10	20	-	-	-	0	2	N/N
			-	-	-	0	3	N/N
			-	-	-	0	3	N/N
Confetti/ Streamers Metallic pvc	10	40	-	-	-	5	0	N/N
			-	-	-	3	0	N/N
			-	-	-	5	0	N/N

A total of three test were carried out on each product.

*) when a – is noted, the sample didn't burned.