

MPA Dresden GmbH · Fuchsmühlenweg 6F · D-09599 Freiberg

Van Dijk Rouse Holland B. V.  
Mr. Sander Rouse  
Port van Midden Gelderland, Oranje 1  
Postbus 20  
NL-6666 Heteren  
Netherlands

Freiberg, March 05, 2013  
Official: Mr. Romberg  
Phone: +49-(0)3731- 2 03 93 154  
Fax: +49-(0)3731- 2 03 93 110  
Email: h.romberg@mpa-dresden.de

**Your order dated January 23, 2013; Examination of fire extinguishing efficiency, aerosol dispenser**

## Examination Report No. 2013-F-0296

**Examination of the extinguishing efficiency of a manually operated aerosol dispenser model „Zaplinger“ by using of standardized test fire objects**

**Requested by:** Van Dijk Rouse Holland B.V. Port van Midden Gelderland  
NL-6666 Heteren

### Identification of the fire extinguishing product:

Type: manually operated aerosol dispenser (see appendix)  
Model name: „Zaplinger“  
Manufacturer: Van Dijk Rouse Holland B.V. Port van Midden Gelderland  
NL-6666 Heteren

### Information about the examination:

Samples receipt: February 18, 2013  
Date of the examination: February 18, 2013

### Test laboratory:

MPA Dresden GmbH  
Official laboratory for fire extinguishing media and fire  
extinguishers  
Fuchsmühlenweg 6F, 09599 Freiberg, Germany

### Report:

This examination report comprises 7 pages inclusive 2 pages  
appendix.

**Van Dijk | Rouse  
Holland B.V.**



MPA Dresden GmbH  
Fuchsmühlenweg 6F  
09599 Freiberg  
Tel. +49(0)3731-20393-0  
Fax +49(0)3731-20393110

Geschäftsführer: Thomas Hübler  
Steuernummer: 220/114/03011  
Amtsgericht Chemnitz HR B 21581  
www.mpa-dresden.de  
Email info@mpa-dresden.de

Sparkasse Mittelsachsen  
Poststraße 1a  
09599 Freiberg  
Kto. 3115024672  
BLZ 870 520 00

USt-IdNr. DE234220069  
IBAN DE68 8705 2000 3115 0246 72  
BIC WELADED1FGX

## 1 Order and objective

The company Van Dijk Rouse Holland B.V. instructed the test laboratory MPA Dresden GmbH to carry out fire extinguishing tests with an aerosol dispenser on small test fire objects as specified in the standards mentioned in paragraph 2 of this report.

## 2 Basis of the examination

### 2.1 Small test fire objects as specified in standards for aerosol spray fire extinguishers and for portable fire extinguisher

- 8 B as per par. 7.6 and annex H of BS 6165:2002
- 5 F as per par. 15.4 and annex L of EN3-7:2007

### 2.2 Fire extinguishing tests

- Fire extinguishing tests in the fire extinguishing laboratory of the MPA Dresden GmbH in Freiberg, carried out on February 18, 2013

## 3. Subject of examination

### 3.1 Aerosol dispenser

- Fire extinguishing medium: 80 g DKL, aerosol-forming substance DLK, manufactured by Shaanxi J&R Fire Fighting Co., Ltd. Qingyang International Building, Tsinghua Science Park, Keji 2RD, Xi'an High-tech Development Zone, Shaanxi, China 710075
- Fire extinguisher body: aluminium body, nominal charge 80 g DKL
- Type of activation push button, plastics
- Operating principle: aerosol-forming by chemical reaction of the substance DKL, caused by spark ignition
- Total weight of dispenser: 500 g

### 3.2 Submitted documents

- Material Safety Data Sheet of the active ingredient DKL, undated, issued by J&R Fire Fighting, 4 pages

Van Dijk | Rouse  
Holland B.V.



#### 4. Examination method

The fire extinguishing tests were carried out according to an agreed test plan. The test took place indoors at an ambient temperature of 2°C.

The test fire object of fire class B was built as specified in BS 6165 (see par. 2.1).

The test fire object fire class F was built as specified in EN 3-7 (see par. 2.1)

Test results have been recorded as follows in paragraph 5.

#### 5. Examination results

##### 5.1 Class B fire extinguishing test

Prüfung Nr. Test no.		1	2
Brennzeit des Brandprüfobjektes Burning duration of the test fire object	(s)	60	
Prüfobjektgröße Fire size		8 B	
Durchführung der Prüfungen Fire test carried out	(im Raum / im Freien) (indoors / outdoors)	Im Raum Indoors	
Gemessene Umgebungstemperatur Measured ambient temperature	(°C)	2	
Gemessene Windgeschwindigkeit Measured wind speed	(ms <sup>-1</sup> )	0	
Prüfobjekt gelöscht Test fire extinguished	(ja/nein) (yes/no)	Ja Yes	
Gemessene Löschzeit für das Prüfobjekt Measured time to extinguish test fire	(s)	6,0	6,9
Gemessene Heptan – Füllhöhe nach dem Löschvorgang Measured residue (layer height) of heptane after extinction	(mm)	≥ 5	
Erreichte Prüfobjektgröße – Brandklasse B Achieved test fire rating – fire class B		8 B	

Van Dijk | Rousse  
Holland B.V.



## 5.2 Class F fire extinguishing test

Prüfung Nr. Test no.		1
Prüfobjektgröße Fire size		5 F
Gemessene Umgebungstemperatur Measured ambient temperature	(°C)	2
Gemessene Zeitdauer bis zur Selbstentzündung des Öls Measured duration to reach auto ignition of the oil	(h:min)	1:02
Gemessene Selbstentzündungstemperatur Measured auto ignition temperature	(°C)	347
Brennzeit des Brandprüfobjektes Burning duration of the test fire object	(s)	120
Vollständige Entleerung des gesamten Löschmittelinhaltes ohne Unterbrechung Complete discharge of the entire content without interruption	(ja/nein) (yes/no)	Ja Yes
Prüfobjekt gelöscht Test fire extinguished	(ja/nein) (yes/no)	Ja Yes
Brennbares Material herausgeschleudert Burning material ejected	(ja/nein) (yes/no)	Nein No
Wiederentzündung oder Überlaufen von Brennstoff innerhalb von 20 min nach der vollständigen Entleerung Re-ignition or overflow of fuel within 20 min after the complete discharge	(ja/nein) (yes/no)	Nein No
Zurückgebliebenes Öl im Behälter nach dem Test Remaining oil in the tray at the end of the test	(ja/nein) (yes/no)	Ja Yes
Flammenvergrößerung beobachtet Enlargement of flames observed	(ja/nein) (yes/no)	Nein No
Erreichtes Prüfobjekt – Brandklasse F Achieved test fire rating – fire class F		5 F

Van Dijk | Rousse  
Holland B.V.



## 6. Summary

The fire extinguishing efficiency of the special aerosol dispenser with the model name "Zaplinger" was examined and was successful proofed on the following specified test fires:

- 8 B as specified in paragraph 7.6.1 and annex H.5 of BS 6165:2002
- 5 F as specified in paragraph 15.4 and annex L of EN 3-7:2007

## 7 General Information

Only equipment and materials as stated in this report have been used for the examination. Examination results relate solely to the specimen examined.

This report must not be reproduced in extracts without the written consent of MPA Dresden GmbH.

The publishing of the examination report and references to examinations for advertising purposes require the written consent of the MPA Dresden GmbH in each individual case.

Each page of this report has been endorsed with the stamp of the company MPA Dresden GmbH.

## 8 Particular information

1. This report is an examination report.
2. This report is not a standardized test report and not a product certification approval as usual for fire extinguishers.

March 05, 2013



Grad. Eng. Jürgen Dittrich  
Laboratory Manager

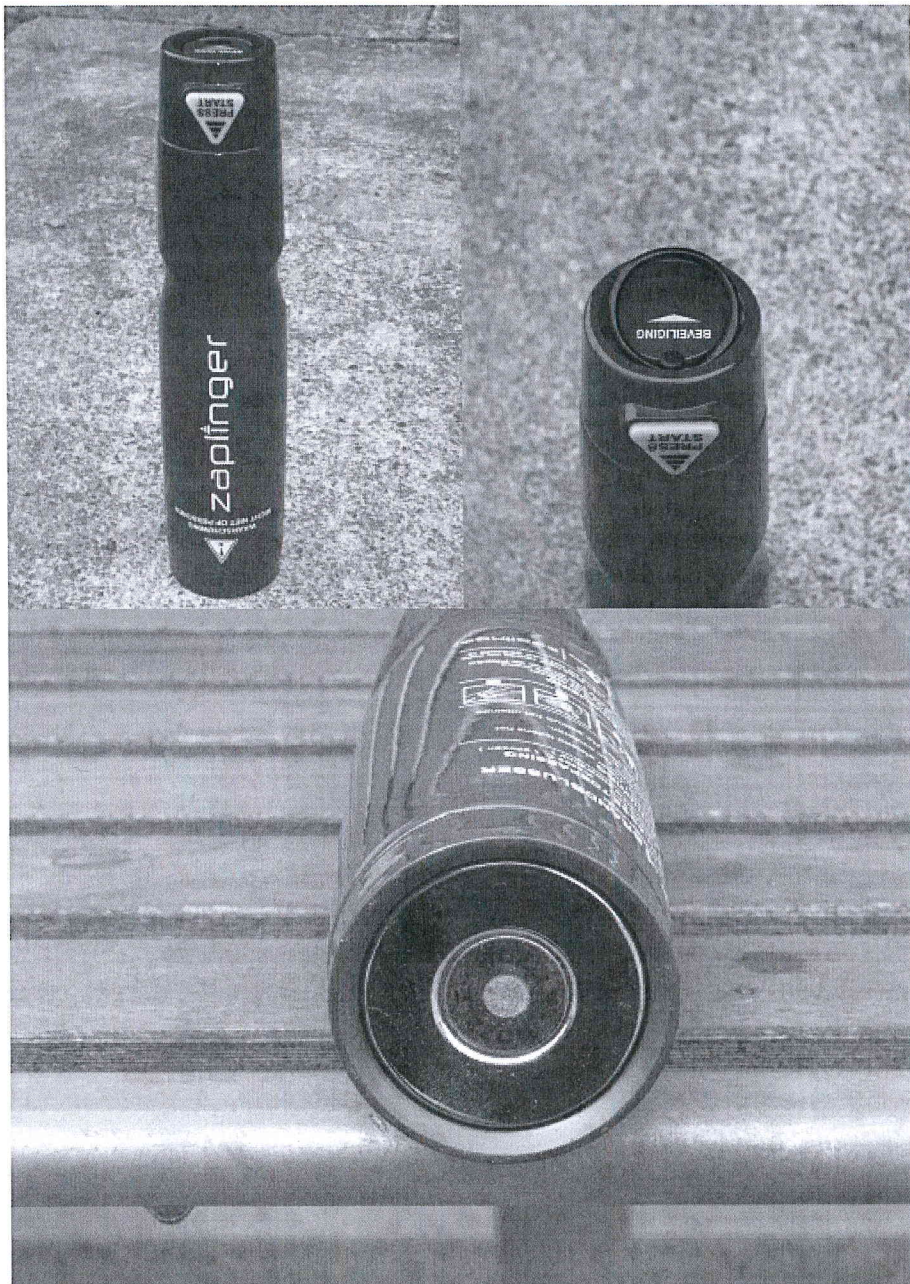


Grad. Eng. Holger Romberg  
Official

Van Dijk | Rousse  
Holland B.V.

## Appendix 1: Photographic documentation

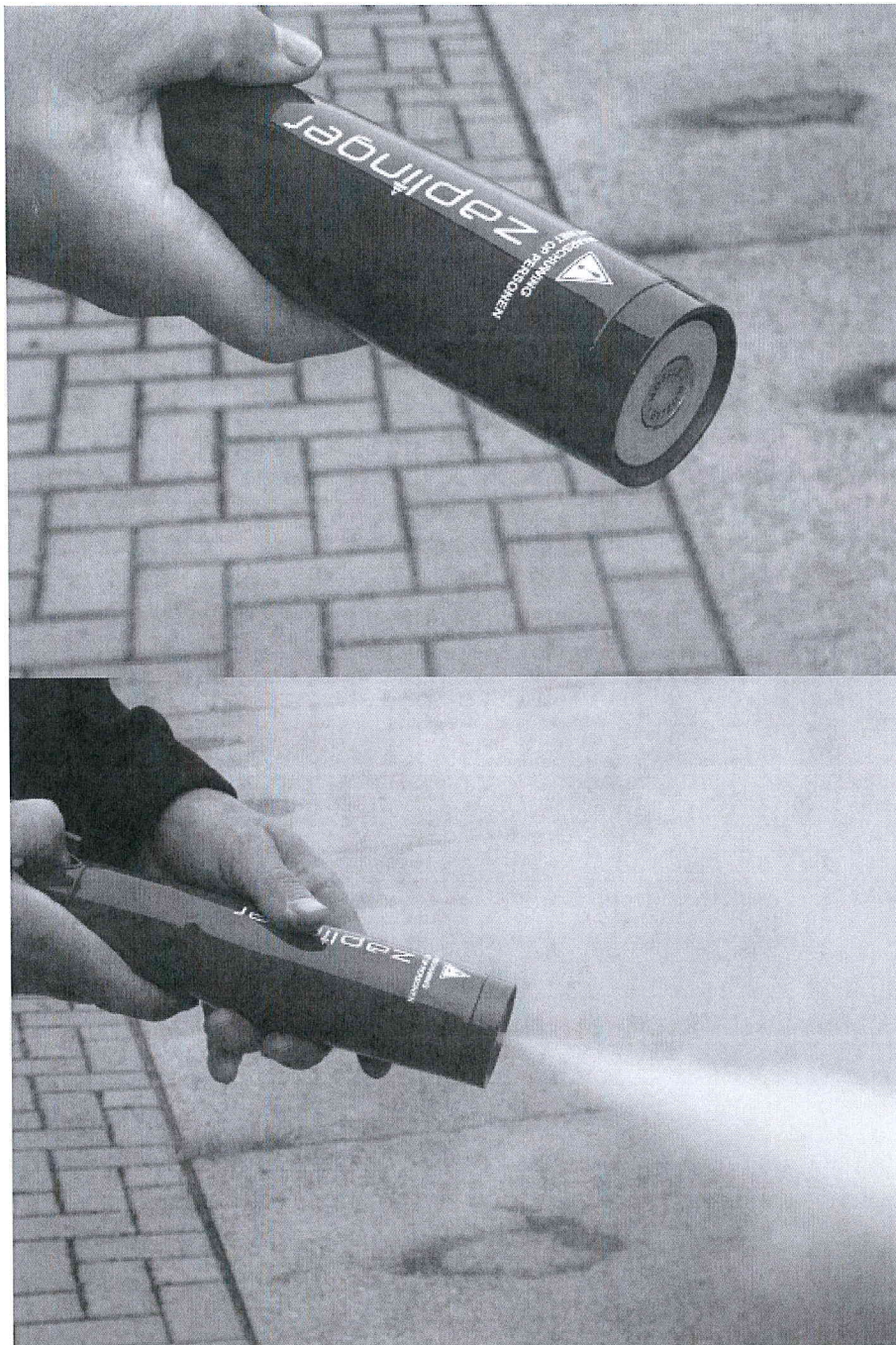
Fig. 1 Aerosol dispenser model "Zaplinger"



Van Dijk | Rousse  
Holland B.V.



**Fig. 2: Operation of the aerosol dispenser**



Van Dijk | Rouse  
Holland B.V.

