



Date : 2016-05-18

CERTIFICATE OF COMPLIANCE

This certificate of compliance validates the following			
TEST REPORT NUMBER 'Assessment Reports' are not acceptable	04-6-1485/N 275	CERTIFICATE NUMBER	SP 41/95
DATE OF ISSUE	2004-11-03	DATE OF ISSUE	1995-05-22
DATE OF EXPIRY	---	DATE OF EXPIRY	---
Manufacturer details			
NAME OF FACTORY / MANUFACTURER	FLN Feuerl"schger"ate Neuruppin Vertriebs- GmbH	NAME OF THE BRAND	neuruppin
FACTORY ADDRESS / REGION (STREET / TOWN / CITY / COUNTRY)	Martin-Ebell-Stra"e 4 D-16816 Neuruppin Germany	MODEL / NO	KS 5 BG
WEBSITE	http://www.fln- neuruppin.de/	LOGO ON THE PRODUCT	
TEL	+ 49 (0) 3391 6890	EMAIL	FLN@tycoint.com



Product Details From Test Report		Reference Test Report page NO
DESCRIPTION OF THE PRODUCT (TECHNICAL DETAILS FROM TEST REPORT, SUCH AS ACTUAL FIRE RATINGS/DIMENSIONS/THICKNESS/ SENSITIVITY ETC)	Portable fire extinguisher with 5 kg CO ₂ as extinguishing medium Fire rating 89 B	1, 2
TEST STANDARD (SUCH AS ASTM/BS EN/ DN ETC)	<p>EN 3-7:2004+A1:2007 Portable fire extinguishers This European Standard specifies the characteristics, performance requirements and test methods for portable fire extinguishers.</p> <ul style="list-style-type: none"> • Tests for compliance with EN 3-7 (relevant tests) • Fire extinguishing medium • Operating temperature range • Achieved fire ratings • Intended fire classes according to EN 2 <p>EN 3-10:2009 Portable fire extinguishers This European Standard specifies the provisions for evaluating the conformity of a portable fire extinguisher to EN 3-7.</p>	Reference standard
TEST DESCRIPTION	<p>Portable fire extinguisher Fire extinguisher which is designed to be carried and operated by hand and which in working order has a mass of not more than 20 kg.</p> <p>Control of discharge Portable fire extinguishers shall be fitted with a self-closing control valve to enable the discharge to be interrupted temporarily.</p> <p>Operating position Extinguishers shall operate without being turned over to an inverted position.</p> <p>Hose assembly Extinguishers having a mass of extinguishing medium greater than 3 kg or a volume of extinguishing medium greater than 3 l shall be provided with a discharge hose.</p> <p>Propellants Only Air, Argon, Carbon dioxide, Helium, Nitrogen or mixtures</p>	Reference standard



thereof, shall be used as propellants.

Stored pressure extinguishers

Stored pressure extinguishers, except carbon dioxide, shall have a means of checking the presence of pressure.

Nominal charges

Nominal charges of portable fire extinguishers shall be equal to:

- Powder: 1 kg, 2 kg, 3 kg, 4 kg, 6 kg, 9 kg, 12 kg
- Water based: 2 l, 3 l, 6 l, 9 l
- Carbon dioxide: 2 kg, 5 kg
- Halon: 1 kg, 2 kg, 4 kg,

Filling tolerances

- $\pm 5\%$ for 1 kg powder
- $\pm 3\%$ for 2 kg powder
- $\pm 2\%$ for ≥ 3 kg powder
- $+ 0\% / -5\%$ for all other media

Design of the filling opening, excluding carbon dioxide fire extinguishers

- 20 mm for extinguishers with a charge of less than or equal to 3 kg or 3
- 25 mm for extinguishers with a charge of more than 3 kg or 3 l

Minimum duration

The duration of operation must reach a minimum value given in seconds which depends from the nominal charge and the extinguishing medium.

Residual charge

The residual charge of extinguishing medium shall not be more than 10 % of the nominal charge.

Commencement of discharge

All extinguishers shall operate within 4 s of the control valve being opened. When testing extinguishers pressurized by a separate action, the control valve shall be operated within 6 s after activation.

Effective range of operating temperature

T_{max} and T_{min} claimed by the manufacturer shall be used for the tests.

T_{max} for all extinguishers shall be 60 °C or higher

T_{min} excluding water based extinguisher, shall be - 20 °C, - 30 °C



or lower.

T_{min} for water based extinguishers shall be + 5 °C, 0 °C, - 5 °C, - 10 °C, - 15 °C, - 20 °C, - 25 °C, - 30 °C or lower. For water based extinguishers without any protection against freezing T_{min} shall be + 5 °C.

Retention of propellant

All extinguishers and propellant cartridges shall be designed in such a way as to permit their retention of propellant to be checked at regular intervals.

Leakage acceptance levels

Leakage from an extinguisher, or propellant cartridge, shall not exceed the following:

- for stored pressure extinguishers a rate less than or equal to 6 % (v/v) of the expanded gas at 20 °C per year
- for extinguishers and propellant cartridges tested by weighing, a rate of 5 % of the nominal charge per year
- for extinguishers, pressurised only at the moment of operation, after pressurisation a leak exceeding 5 cm³ of gas per minute, per kilogram or litre of charge of the extinguisher

Dielectric test for water based extinguishers

When the extinguisher is in operation and the metallic plate is live, the current between the handle and earth, and between the nozzle and earth, shall be not more than 0,5 mA at any time during the complete discharge of the portable fire extinguisher.

General Requirements for components

With the exception of the safety device no component of the fire extinguisher shall require to be mounted, removed or modified before or during use.

Operation and emission control mechanisms/devices

The activation of the extinguisher shall not depend upon the repetition of a given action on the same device. For extinguishers other than CO₂ extinguishers, the force or the energy required to activate the operating device(s) shall be no greater than follows for temperatures up to T_{max} :

- Finger trigger: 100 N
- Squeeze grip lever: 200 N
- Screw down hand wheel: 100 N
- Strike knob 2 J

For CO₂ extinguishers, this force shall be no greater than 200 N at temperatures up to 40 °C and no greater than 300 N at the



maximum temperature (T_{max}).

Safety devices

The operating mechanism of the extinguisher shall be provided with a safety device to prevent inadvertent operation. The release of the safety device shall involve an operation distinct from that of the operating mechanism and shall require a force between the limits of 20 N and 100 N.

Filter for water based portable fire extinguishers

The discharge from water based portable fire extinguishers shall be through a filter, in order to retain foreign matter. This filter shall be placed upstream of the smallest section of the discharge passage.

Hose and coupling systems

The hose and coupling system shall function throughout the operating temperature range, and coupling systems shall be designed and fitted in such a way that they cannot damage the hose.

Resistance to external corrosion

Complete sample extinguishers shall be subjected to a salt spray test in accordance with ISO 9227 type NSS for a period of 480 h, and then shall immediately be washed carefully to remove any salt deposits. Two extinguishers shall be tested, either two of the same size or one extinguisher each of two different sizes from the same family which use the same material and method of construction.

Resistance to extinguishing medium of extinguishers using water based media

Two extinguishers charged in accordance with the manufacturer's filling instructions, shall be subjected 8 times a given temperature cycle. Storage at the temperatures shall be carried out in conditioning chambers. Liquid baths shall not be used. The duration of any one complete cycle shall not exceed 120 h.

Fire performance - Class A

Class A test fires shall consist of a crib of wooden sticks supported on a metal frame 250 mm high, 900 mm wide and of a length equal to that of the test fire. The metal frame shall be constructed from angle sections (L x W) (50 x 50) mm as specified in ISO 657-1.

Each test fire is designated by a number (which indicates the fire



	<p>size) followed by the letter A. The designating number of the test fire represents the following two parameters:</p> <ul style="list-style-type: none"> • the length of the test fire in decimetres, i.e., the length of the wooden sticks arranged in the longitudinal direction of the test fire; • the number of 500 mm wooden sticks for each layer arranged in the transverse direction of the test fire. <p>Fire performance - Class B Class B test fires shall be made in a range of welded sheet steel circular trays. The base shall be the same nominal thickness as the walls and the thickness tolerance of the base and wall material shall conform to the relevant national standard. Stiffening bars or sections may be welded to the underside of the base with a minimum distance of 200 mm between substantially parallel stiffeners. All tolerances specified relate to the tray at its time of manufacture. The trays shall contain water, overlaid with a layer of fuel in the following proportion: 1/3 water, 2/3 fuel. The test fires are designated by a number (which indicates the fire size) followed by the letter B. The number represents the volume of liquid, in litres, contained in the tray.</p> <p>Portable fire extinguisher identification – colour The colour of the body shall be red RAL 3000 as specified in Farbregister RAL-841-GL. National regulations may require a zone of colour with an area of up to 10 % of the surface area of the extinguisher body to be used to identify the extinguishing agent.</p> <p>Portable fire extinguisher identification – marking The marking on the extinguisher shall be in contrasting colour(s) to the background. The marking shall be divided into five parts. The marking required for Parts 1, 2, 3 and 5 shall be contained on the same label or in the same frame. The label (or frame) shall be in such a position that it can be clearly read when the extinguisher is on its mounting bracket. The marking required for Part 4 may be placed elsewhere on the extinguisher.</p>	
<p>SPECIFICATION OF TEST SPECIMEN</p>	<p>Fire extinguisher type: portable stored pressure type Nominal charge: 5 kg CO₂ Propellant: - Provided quantity: - Date of receipt: -</p>	<p>1</p>



<p>TEST RESULT (SUCH AS PASSED CRITERIA___/ COMPLIED TO___/ DURATION___/OBSERVATION___/ETC)</p>	<p>Performance characteristics of the fire extinguisher Class B fire rating achieved 89 B pass Operating temperature range -30 °C to 60 °C pass Conformity of submitted samples with all applicable clauses of EN 3-7 pass</p>	<p>2 4 - 30</p>
<p>PRODUCT APPLICATION GUIDELINE (END USE) (CLEARLY STATE THE END USE WITH SPECIFIC APPLICATION, SUCH AS EXACT FIRE RATING/TO BE INSTALLED IN___/TO BE INSTALLED AT___/TO BE CONNECTED WITH___/TO BE INSTALLED WITH___ ETC ALONG WITH ANY WARNINGS SUCH AS NOT TO BE USED IN___/NOT TO BE INSTALLED AT___/ NOT TO BE INSTALLED WITH___ ETC.</p>	<p>End use: Fire protection in the private, public and industrial sectors Operating instructions: Pull out safety pin Direct the horn to the seat of fire Press down valve lever Use only on fires of fire class B Caution in electric installations Up to 1000 V only. Minimum distance 1 m</p>	<p>2 Annex 2</p>



Laboratory and Certification body details			
NAME OF CERTIFICATION BODY	MPA Dresden GmbH	NAME OF TEST FACILITY	MPA Dresden GmbH
CERTIFICATION BODY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	Fuchsmühlenweg 6F D-09599 Freiberg Germany	TEST FACILITY ADDRESS / REGION <small>(STREET / TOWN / CITY / COUNTRY)</small>	Fuchsmühlenweg 6F D-09599 Freiberg Germany
WEBSITE	http://www.mpa-dresden.de	WEBSITE	http://www.mpa-dresden.de
TEL	+ 49(0)3731 20 393-0	TEL	+ 49(0)3731 20 393-0
EMAIL	info@mpa-dresden.de	EMAIL	info@mpa-dresden.de
ACCREDITED BY <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE CERTIFICATION BODY, ALONG WITH WEBSITE)</small>	DAkKS Deutsche Akkreditierungsstelle GmbH http://www.dakks.de	ACCREDITED BY <small>(NAME OF ACCREDITATION BODY WHICH ISSUED ACCREDITATION TO THE LABORATORY, ALONG WITH WEBSITE)</small>	DAkKS Deutsche Akkreditierungsstelle GmbH http://www.dakks.de
AS PER <small>(STANDARD TO WHICH THE CERTIFICATION BODY IS ACCREDITED TO)</small>	DIN EN ISO/IEC 17065:2013	AS PER	a) DIN EN ISO/IEC 17025:2005 b) DIN EN ISO/IEC 17020:2012
VALIDITY	2019-09-15	VALIDITY	a) 2019-08-10 b) 2018-09-12
REFERENCE NUMBER:	D-ZE-17819-01-00	REFERENCE NUMBER:	a) D-PL-17819-01-00 b) D-IS-17819-01-00
CERTIFICATION MARK			
(ENDORSEMENT) TO BE SIGNED BY MANUFACTURER			
NAME OF MANUFACTURER'S SIGNATORY	Mr. Heiner Armbrüster	SIGNATURE	
EMAIL / TEL	FLN@tycoint.com +49 (0) 3391 6890	FACTORY OFFICIAL SEAL	FLN Feuerlöschgeräte Neuruppin Vertriebs-GmbH Martin-Ebell-Str. 4 16816 Neuruppin
NOTES: I Undertake that all data and information provided are genuine and accurate			
(ENDORSEMENT) TO BE SIGNED BY CERTIFICATION BODY			
NAME OF CERTIFICATION BODY SIGNATORY	Grad. Eng. Bernd Ruhle	SIGNATURE	
EMAIL / TEL	b.ruhle@mpa-dresden.de + 49(0)3731 20 393-0	CERTIFICATION BODY OFFICIAL SEAL	
NOTES: I Undertake that all data and information provided are genuine and accurate			

ATTACHMENTS:

- COPY OF 'CERTIFICATE OF COMPLIANCE' ISSUED BY CERTIFICATION BODY (OLD OR NEW)