



Simply.
More.
Safety.

AMFE Series Product Information Sheet

The **Automatic Miniature Fire Extinguishers (AMFE)** series by JOB is produced in Ahrensburg, Germany (**Made in Germany**) in accordance to all applicable standards.

JOB is the worldwide leader for sprinkler thermos-bulbs and produces more than 110 million pieces of these temperature detection products annually.

As the leading brand in fire detection, JOB stands for uncompromised quality!

Besides complying with ISO 9001, ISO 14001 and carrying other relevant certifications from organizations around the globe, JOB has a confirmed failure rate of less than 0,001 ppm in its fire detection components

At this time, there is no certification required for using AMFE for fire protection in electrical devices or machines and there is no standard AMFE can be certified for.

However, the components it is made of components which carry the following certificates:



The detection device:

JOB sprinkler bulbs are globally certified and carry relevant UL, VDS, LPCB and other certificates.

The pressure cylinder:

The heavy duty cylinders are manufactured in Germany for robustness and safety. They carry the PI (Π) mark indicating the compliance with ADR/RID §1.8.7.6.

The extinguishing agent:

3M™ NOVEC™ is a globally used ISO, NFPA, VdS (and others) approved, fire extinguishing agent (FK-5-1-12). Additionally, it complies with the REACH requirements.

The AMFE also is RoHS conform.

Using AMFE for fire protection is easy, reliable and safe. Integrating AMFE to enhance fire safety of applications is not "prohibited" or not "not allowed" by any standard or code requirement.

For more information and pricing, please contact JOB or your local authorized JOB partner (see JOB website for a list).

JOB GmbH
Kurt-Fischer-Str 30
D-22926 Ahrensburg
Germany

3M Belgium BVBA

Haven 1005
Canadastraat 11
B-2070 Zwijndrecht
Tel. +32(0)3 250 77 11
Fax +32(0)3 219 64 42
<http://www.mmm.com/be>

Registered Office :
Hermeslaan 7, B- 1831 Diegem
HRB 232 647
VAT BE 402 683 721
Fortis 210-0077944-08



Job GmbH
An der Strusbek 5
22926 Ahrensburg
Germany

Zwijndrecht, April 10, 2017

Subject : REACH registration compliance 3M™ Novec™ 649 Engineered Fluid

Dear Mr. Eichhorn,

We are pleased to respond to your request regarding 3M's compliance with the European Regulation "REACH" (Registration, Evaluation and Authorisation of Chemicals).

The **3M™ Novec™ 649 Fluid Engineered Fluid** product contains a chemical substance which is REACH registered in the EU :

- REACH registration nbr. : 01-0000018239-65-0001
- Identified use : heat transfer fluid – industrial / professional use in closed systems

I trust you received hereby the required feedback.

Sincerely,

Dr Piene Vander Elst

Product responsibility and regulatory
3M Belgium BVBA
Canadastraat 11 – Haven 1005
B-2070 Zwijndrecht
Belgium

Tel : + 32 3 250 7889
Fax : + 32 3 250 7847
e-mail : pvanderelst1@mmm.com



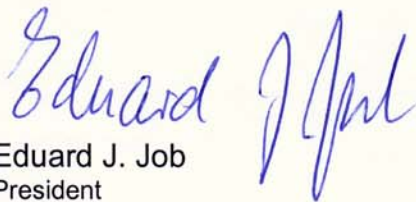
RoHS-Certification

Material/Substance Category Name	Present (Y/N)	If yes, Material substance mass (%)	If yes, Detailed information
Cadmium/Cadmium compounds	N		
Hexavalent Chromium/ Hexavalent Chromium Compounds	N		
Lead/Lead Compounds	N		
Mercury/Mercury Compounds	N		
Polybrominated Biphenyls (PBBs)	N		
Polybrominated Diphenylethers (PBDEs)	N		

We herewith certify that the Job GmbH Thermo-Bulbs conform with the EU-Directive 2002/95/EC to the RoHS-Standard.

Ahrensburg, 26.07.2006

JOB GmbH



Eduard J. Job
President

UL Online Certifications Directory

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Fusible Links

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JOB GMBH

R18196

KURT-FISCHER-STRASSE 30
22926 AHRENSBURG, GERMANY

Thermo Bulb Link , Quick Response in the 135, 155, 165, 175, 200, 212, 250, 286, 325, 360, 400, 450 and 500 F temperature ratings for loads from 1 to 55 lbf incl., having a bearing length of 2 in.

Thermo Bulb Link , Standard Response in the 135, 155, 165 , 175, 200, 212, 286, 360, 450 and 500 F temperature ratings for loads from 1 to 55 lbf incl., having a bearing length of 2 in.

[Last Updated](#) on 1999-11-03

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zur Anerkennungsnummer/ to Approval No. G 4990039 vom/ dated 22.06.2015

Der Gegenstand der Anerkennung umfasst folgende Bestandteile.
The subject of the approval comprises the following parts.

Bezeichnung des Gegenstandes Description of Subject	Typ Type	Kenn-Nr. des Inhabers Holder's Registration No.	Anerkennungsnr Approval No.
<p>Glasfass-Auslöseelement</p> <p>Durchmesser: 5,0 mm</p> <p>Ansprechtemperaturen:</p> <p>57 °C</p> <p>68 °C</p> <p>79 °C</p> <p>93 °C</p> <p>141 °C</p> <p>182 °C</p> <p>260 °C</p>	<p>G5</p>		



zur Anerkennungsnummer/ to Approval No. G 4990039 vom/ dated 22.06.2015

Der Gegenstand der Anerkennung wird durch folgende Unterlagen beschrieben.
The subject of the approval is described by the following documents.

Art der Unterlage Type of Document	Kennzeichnung der Unterlage Identification of document	Datum Date	Seiten Pages
VdS-Prüfberichte	WAL 97044 RWA 98019 RWA 99005	16.01.1998 26.11.1998 18.06.1999	
Produktdatenblatt	JOB G5 Standard Response Technical Specification	04/2009	2
Einsatz Schulter für 5,0 mm Glasfass	keine	30.06.1997	1
Einsatz Boden für 5,0 mm Glasfass	keine	30.06.1997	1



Anlage / Enclosure 3

Seite / Sheet 1

zur Anerkennungsnummer/ to Approval No. G 4990039 vom/ dated 22.06.2015

Hinweise für die Anwendung des Gegenstandes der Anerkennung nach Anlage 1.
Instructions for the application of the subject of approval [see enclosure 1].

Bei den Prüfungen des RTI-Wertes wurden die Prüfmuster in einem Sprinkler eingebaut.

Bei den Festigkeitsprüfungen wurden die Prüfmuster in den in Anlage 2 aufgeführten Glasfassaufnahmen eingespannt.

Loss Prevention Certification Board



This is to certify

JOB GmbH

Kurt- Fischer-Strasse 30, 22926 Ahrensburg, Hamburg, Germany

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix.

F2.5, F3, F3-SP and G5 Sprinkler Bulbs
(refer to attached appendix for details)

which have complied with the requirements of the following:

LPS 1039 : Issue 5 – (Appropriate parts)
Requirements and Testing Methods for Automatic Sprinklers

Certificate No. 351a

Issue No. 6

Date of Issue 28th February 2006

This certificate is valid until withdrawn by LPCB.
To check the validity and the authenticity of this certificate please
visit our website www.RedBookLive.com or contact us.

Signed on behalf of the LPCB

Name: B W Lywood



LPCB is part of BRE Certification Ltd., Garston, Watford WD25 9XX. Tel +44 (0)1923 664100
Fax +44 (0)1923 664603 www.RedBookLive.com

This certificate remains the property of BRE Certification Ltd and is issued subject to terms and conditions
and is maintained and held in force through regular surveillance activities.

Loss Prevention certification Board



APPENDIX TO CERTIFICATE NO. 351a

JOB GmbH

Kurt-Fischer-Strasse 30, 22926 Ahrensburg, Hamburg, Germany

Product Name	Bulb Size (mm)	Temperature rating (°C)	LPCB Ref. No.
F2.5 Quick Response (1)	2.5	68,93	351a/01
F3 Quick Response (1)	3	57,68,79,93,141	351a/02
F3-SP 'superior' Quick Response (1)	3	57,68,79,93,141	351a/04
G5	5	57,68,79,93,141,182	351a/03

(1) Suitable for use in quick response sprinklers.

This certificate is valid until withdrawn by LPCB.
To check the validity and the authenticity of this certificate please
visit our website www.RedBookLive.com or contact us.

Signed on behalf of the LPCB

Page 2 of 2

Date of Issue 28th February 2006

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Name: B W Lywood

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and is maintained and held in force through regular surveillance activities.

ZERTIFIKAT

Richtlinie 2010/35/EU

Die „Prüf- und Zertifizierungsstelle für ortsbewegliche Druckgeräte“ der DEKRA Automobil GmbH bescheinigt hiermit, dass das Unternehmen

**Welz Gas Cylinder GmbH
An der Gasanstalt 4-5
D-14712 Rathenow**

an der Niederlassung

**Welz Gas Cylinder GmbH
An der Gasanstalt 4-5
D-14712 Rathenow**

ein Qualitätssicherungssystem mit

„betriebseigenen Prüfdienst“

gemäß Kapitel 1.8.7.6 ADR unterhält. Der Umfang der Prüfung umfasst erstmalige und wiederkehrende Prüfung sowie die Überwachung der Herstellung von ortsbeweglichen Druckgeräten.

Die erforderliche Kennzeichnung mit ggf. Datum der Prüfung und die nachstehend abgebildete Kennzeichnung ist anzugeben.



Der Nachweis der Übereinstimmung der an den Produkten durchgeführten Prüfungen mit der ADR 2013 wurde im Rahmen einer Nachprüfung (Zulassungsaudit) erbracht. Dieses Zertifikat ist nur in Verbindung mit dem Prüfbericht Nr.: 20140924-31446-1890888964-100-421411-REZERT gültig.

**Kenn-Nr.
benannte Stelle:** 2266

**Datum der
Erstzertifizierung:** 14.09.2011

**Datum der letzten
Zertifizierung:** 24.09.2014

**Dieses Zertifikat
ist gültig bis:** 23.09.2017

Registrier-Nr.: Z-O-025-10498/14

Die Gültigkeit des Zertifikates setzt die erfolgreiche jährliche Nachprüfung des Qualitätssicherungssystems durch die benannte Stelle voraus.

Hamburg, 24.09.2014


Zertifizierungsstelle für Druckgeräte



2266
Kenn-Nr. der Benannten Stelle
NB 2266 in direkter Rechtsnachfolge NB 0685



**BUREAU
VERITAS**

**CERTIFICAT D'APPROBATION D'UN SERVICE INTERNE
D'INSPECTION (SII)
IN-HOUSE INSPECTION SERVICE APPROVAL CERTIFICATE
N° CDG-I-WEL 002-16-DEU**

Bureau Veritas SA, agissant dans le cadre de son agrément par l'autorité compétente française atteste que :
Bureau Veritas SA, acting within the scope of its delegation received from French authority attests that:

Nom du demandeur et adresse / Applicant's name and address: Welz Gas Cylinder GmbH
An der Gasanstalt 4
Raison Sociale et adresse de l'usine / Name and address of the factory: An der Gasanstalt 4
14712 Rathenow
- Germany

Nom du responsable du SII / In-House Inspection Service Responsible: Matthias Drumann

Après réalisation de l'évaluation (ADR/RID § 1.8.7.6) formalisée suivant le document :
After performing the assessment (ADR/RID § 1.8.7.6) as reported in the document:

Rapport d'audit d'un SII / In- House Inspection Service Audit Report n° WELZ/IA/160202

En date du (jj/mm/aaaa) / dated (dd/mm/yyyy) 05/02/2016

Type d'équipement / Type of equipment Receptables incl. valves acc. to Report Nr. WELZ/IA/160202

Le Service Interne d'Inspection (SII) est approuvé dans le cadre de :

The In-House Inspection Service is approved to perform the following activities:

- la surveillance de la fabrication / Supervision of manufacture
 les contrôles et épreuves initiaux / Initial inspection and test
 les contrôles périodiques / Periodic inspection

des fabrications réalisées suivant les agréments de type approuvés et répertoriés au rapport d'audit référencé ci-dessus ou dans le dernier audit périodique en vigueur.

Within the framework of the realized manufacturing's following the type approved and listed in the audit report above or in the last periodic audit current.

Cette approbation donne l'autorisation au SII de porter la marque « BV » 0062 lorsque nécessaire.

This approval gives the authorization to the client to affix the BV mark 0062 where appropriate.

Cette approbation demeure valable tant qu'aucuns changements significatifs n'interviennent dans le SII audité, dans les moyens de production ou dans le système qualité. Ces conditions sont vérifiées à chaque audit périodique.

This approval remains valid as long as no significant changes are made to the audited IIS, its production rate and its quality system. These conditions are assessed during each periodic audit.

Ce certificat a une durée de validité de 3 ans, sauf modification, évolution constructive ou évolution des prescriptions techniques remettant en cause l'aptitude de l'unité de fabrication. Ces évolutions sont vérifiées à chaque audit périodique.

This certificate is valid for 3 YEARS except modification, evolution of manufacturer process and evolution of the technical prescriptions questioning the proficiency of the factory unit. These conditions are assessed during each periodic audit.

Établi à <i>Made at</i>	Le (jj/mm/aaaa) <i>On (dd/mm/yyyy)</i>	Approuvé et enregistré en <i>Approved and Recorded in</i>	Signé par <i>Signed by</i>	Signature <i>Signature</i>
Hamburg	08/04/2016	France	Andreas KLATT	

Code d'enregistrement / Registration Code : 2016/000704/CE-0062-TPED

Le présent certificat est soumis aux Conditions Générales de Service de Bureau Veritas SA jointes à la demande d'intervention signée par le demandeur.
This certificate is subject to the terms of Bureau Veritas SA General Conditions of Service attached to the agreement signed by the applicant.

Le présent document ne peut être reproduit que dans son intégralité, avec l'accord de Bureau Veritas SA et du fabricant.
The present document shall not be reproduced, except in full, without Bureau Veritas SA and Client's approval.