

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Equipment for Fire Protection**with type designation(s)
BK dry chemical powder 75 %

Issued to

Johnson Controls International Korea, Inc.
Busan, Republic of Koreais found to comply with
EN 615:2009 Fire protection – Fire extinguishing media – Specifications for powders (other than class D powders)**Application :****May be used in fixed dry chemical fire extinguishing systems and portable / mobile fire extinguishers for installation on all vessels classed by DNV GL.**Issued at **Hamburg** on **2019-05-02**This Certificate is valid until **2024-05-01** .for **DNV GL**DNV GL local unit: **Gimhae Station**Approval Engineer: **Andrii Pishchanskyi**

Olaf Drews
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job Id: **262.1-030079-1**
Certificate No: **TAF000016A**

Product description

"BK dry chemical powder 75 %" is an extinguishing medium consisting of the following materials:

Ingredient	Concentration
Potassium bicarbonate	75 %
Sodium bicarbonate	13 %
Calcium carbonate	8 %
Other	4 %

Application/Limitation

This Type Approval certificate is not valid for designs, components, equipment, systems or products which are subject to classification by DNV GL and address only dry chemical powder.

New IMO clarifications during certificate validity regarding allowable composition of dry chemical powder shall be subject to reconsideration of the certificate.

The validity of the certificate is dependent on the compliance of each manufactured product with the prototype which underwent the type approval tests and such compliance shall be stated in a declaration of conformity by the manufacturer.

Each product is to be supplied with its manual for application, use, storage, transport and maintenance.

Type Approval documentation

1. Test report No. R2013-0702 dated 2013-09-13 issued by FILK;
2. Test report No. 2013-TAU-017912 dated 2013-08-30 issued by KTR;
3. Material safety data sheet dated 2013-09-30.

Tests carried out

Tested according to EN 615:2009.

Marking of product

The packing is to be marked according to EN 615:2009 including among other things name and address of manufacturer, type designation, storage/use temperature, production date, expiry date and SHE information.

Periodical assessment

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnvgl.com>. The arrangement is to be in accordance with procedure described in Class Programme DNVGL-CP-0338, Section 4.