

# Certificate

**No. 1436.GR.20200507.142349 V2.0**

TÜV NORD Systems GmbH & Co. KG hereby certifies to

## **JOB GmbH**

Kurt-Fischer-Straße 30  
22926 Ahrensburg  
Germany

for the mini fire-extinguishing system

## **S-AMFE and R-AMFE**

(refer to annex)

the fulfilment of the requirements of the following standards.

ARGE-Richtlinie Teil 2, Rev.-Nr. 4.1 i.c.w  
ARGE-Richtlinie Teil 1, Rev.-Nr. 6.0  
DIN EN 45545-2, Version 2016, 2020 and 2023, section 4.2h

Variants of the S-AMFE and R-AMFE limitations see annex to this certificate.

Certification program Leittechnik (SEB-ZE-SEECERT-VA-320-20, Rev 6 / 04.24)

Basis of the certification is the report no. BS3.20170313.084846, V03 issued 2026-04-14 and the annex to this certificate.

Valid until: 2031-05-21

Hamburg, 2026-05-21

Tobias Nelke, Certification Body SEECERT

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TÜV®



## Annex to Certificate

Certificate No. 1436.GR.20200507.142349 V2.0

for the mini fire-extinguishing system

## S-AMFE and R-AMFE

### 1. Variants (Extinguishing cartridges, mounting brackets, extinguishing agents FK-5-1-12)

Variants	Size Diameter x Length [mm]	Volume [L]	Description Mounting brackets	Volume extinguishing agent (FK-5-1-12) [ml]
#0	22 x 133	0,026	RGSS 22	24
#1	35 x 149	0,080	RGSS 35	72
#2	40 x 179	0,133	RGSS 40	120
#3	50,8 x 226	0,267	RGSS 51	241
#4	50,8 x 311	0,400	RGSS 51	360
#5	60,3 x 357	0,670	RGSS 60	603

### 2. Quantity of the mounting brackets

For installation and operation, the handling and safety instructions - AMFE series (with FK-5-1-12), Version 3.6\_DE (December 2025), must be followed and the recommendations given there have to be implemented. The number of mounting brackets for installation of the AMFE products with the installation of the extinguishing cartridges is specified in the same handling and safety instructions chapter 6.

### 3. Tripping temperature of the glass ampoules

For the mentioned variants of the S- and R-AMFE under point 1, the validation of the nominal tripping temperatures for the glass ampoules at 57°C, 68°C, 79°C, 93°C and 141°C is provided by VdS test reports

### 4. Railway suitability

The suitability for railway is proven for following temperatures:

- Cooling according /EN50155/ => /EN 60068-2-1/ with T1 = -25°C
- Dry Heat according /EN50155/ => /EN 60068-2-2/ with T1 = +55°C
- Humid Heat according /EN50155/ => /EN 60068-2-30/ with T = +25°C bis T = +55°C (80% bis 96% relative Humidity)
- Salt Fog according /EN50155/ => /EN 60068-2-11/ with T = +35°C

## 5. Fire Detection

When using the S-AMFE and R-AMFE as a fire detection element (temperature parameter), it must be ensured that the correct positioning according to ARGE Part 1 and, in conjunction with the monitoring and alarm system (fire detection system or vehicle control system) installed on the rail vehicle, the system functionality according to ARGE Part 3 is proven.

## 6. Extinguishing effectiveness

The extinguishing effectiveness of the S-AMFE and R-AMFE has been demonstrated by the exemplary performed flooding test with concentration measurement in sample cabinets. In concrete applications, the extinguishing effectiveness according to chapter 3.3 of ARGE part 2 must be proven.

	Release evaluator	Release certifier
Date Signature		