# EBETAM

# **CERTIFICATE**

# EC TYPE- EXAMINATION (MODULE B) ACCORDING TO THE DIRECTIVE 2014/90/EU

Certificate No: ME-C-0307/B/1/22

Notification No of the Certification Body: 0437

Date of issue: 06.12.2022 Test Report No: ME-R-0307/B/1/22

Name and Address KOLAGOM Kimyasallar San.ve Tic. Ltd. Şti

of the Manufacturer: Eyüp Sultan Mah. Mehmet Akif Cad. As Plaza No:3/A

K:2 P.K. 34885 Sancaktepe, İstanbul, TURKEY

Name and Address of the Kral Fire Safety Import and Export Limited Company.

Authorised Representative: 2B Serdika Str. 3rd Floor, Office 1/ Art. 3.L

**Burgas**, **BULGARIA** 

Product Type: AFFF/Aqueous Film Forming Foam Concentrate

(3%-6%), FFFP/Film Forming Fluor protein Foam Concentrate (3%-6%), FP/Fluor Protein Foam Concentrate (3%-6%), P/Protein Foam Concentrate (3%-6%), S 4000/ Synthetic Foam Concentrate (3%-

6%)

Item No: MED/3.58 Fixed Low Expansion Foam Fire

**Extinguishing Systems Components for Machinery** 

**Spaces and Tanker Deck Protection** 

Regulations & Standards: 2014/90 EU, (EU) 2022/1157, SOLAS 74 Reg. II-2/10,

IMO MSC.1/Circ.1312, IMO MSC.1/Circ.1312/Corr.1.

Expiry Date of the Certificate: 05.12.2027

# **DECLARATION**

MIRTEC S.A. certifies that the type mentioned above satisfies the provisions of the Directive 2014/90/EU. For the conformity assessment to be complete, the marine equipment must be subjected to an additional procedure, as laid down in Annex B of the Directive (Modules D, E or F).

The applicant must inform the notified body of all modifications to the approved marine equipment

ANNEX: List of relevant parts of technical documentation

For MIRTEC S.A.



Product Certification Cert. No 27 Digitally signed by

Kalliopi Diamanti

Head of Pressure Equipment & Construction Products Sector Mechanical Engineer, PhD, IWE



For the Evaluation Dpt.

Digitally signed by

Kleomenis Papadopoulos

Mechanical Engineer

SKINION STYNIANOS ANOSTONAKHS

SKIPION STYLIANOS APOSTOLAKIS Dec 8 2022 12:46 PM

EBETAM A.E.

CERT - med / EN 01 (5.4-7.5.18)

# BETAM

# **CERTIFICATE**

# EC TYPE- EXAMINATION (MODULE B) ACCORDING TO THE DIRECTIVE 2014/90/EU

Certificate No: ME-C-0307/B/1/22

Notification No of the Certification Body: 0437

Date of issue: 06.12.2022 Test Report No: ME-R-0307/B/1/22

Name and Address KOLAGOM Kimyasallar San.ve Tic. Ltd. Şti

of the Manufacturer: Evüp Sultan Mah, Mehmet Akif Cad, As Plaza No:3/A

K:2 P.K. 34885 Sancaktepe, İstanbul, TURKEY

Name and Address of the Kral Fire Safety Import and Export Limited Company.

Authorised Representative: 2B Serdika Str. 3rd Floor, Office 1/ Art. 3.L

**Burgas**, **BULGARIA** 

Product Type: AFFF/Aqueous Film Forming Foam Concentrate

(3%-6%), FFFP/Film Forming Fluor protein Foam Concentrate (3%-6%), FP/Fluor Protein Foam Concentrate (3%-6%), P/Protein Foam Concentrate (3%-6%), S 4000/ Synthetic Foam Concentrate (3%-

6%)

Item No: MED/3.58 Fixed Low Expansion Foam Fire

**Extinguishing Systems Components for Machinery** 

**Spaces and Tanker Deck Protection** 

Regulations & Standards: 2014/90 EU, (EU) 2022/1157, SOLAS 74 Reg. II-2/10,

IMO MSC.1/Circ.1312, IMO MSC.1/Circ.1312/Corr.1.

Expiry Date of the Certificate: 05.12.2027

# **DECLARATION**

MIRTEC S.A. certifies that the type mentioned above satisfies the provisions of the Directive 2014/90/EU. For the conformity assessment to be complete, the marine equipment must be subjected to an additional procedure, as laid down in Annex B of the Directive (Modules D, E or F).

The applicant must inform the notified body of all modifications to the approved marine equipment **ANNEX**: List of relevant parts of technical documentation

For MIRTEC S.A.

**ESY**D

Product Certification Cert. No 27 Digitally signed by

Kalliopi Diamanti

Head of Pressure Equipment & Construction Products Sector Mechanical Engineer, PhD, IWE



For the Evaluation Dpt.

Digitally signed by

Kleomenis Papadopoulos

Mechanical Engineer

SKIPION STYLIANOS APOSTOLAKIS Dec 8 2022 12:46 PM

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# Annex to

# Marine Equipment Directive Module B

Type Examination Certificate Nr: ME-C-0307/B/1/22

**DESCRIPTION OF PRODUCT:** MED/3.58 Fixed **Expansion** Foam Fire Low

**Extinguishing Systems Components for Machinery** 

**Spaces and Tanker Deck Protection** 

MODEL: AFFF 3%-6%, FFFP 3%-6%, FP 3%-6%, P %3-6%,

S 4000 3%-6%

KOLAGOM KIMYASALLAR SANAYİİ VE TİCARET **MANUFACTURER:** 

LTD.STI

**ADDRESS** Eyüp Sultan Mah. Mehmet Akif Cad. As Plaza No:3/A

K:2 P.K. 34885 Sancaktepe- İstanbul – TURKEY

Kral Fire Safety Import and Export Limited Company.

Name and Address of the

**Authorised Representative:** 2B Serdika Str. 3rd Floor, Office 1/ Art. 3.L

**Burgas**, **BULGARIA** 

# RELEVANT DOCUMENTATION

Technical File (Kolagom)

MSDS Numbers:

GBF 06.003- GBF 06.007

GBF 06.001- GBF 06.008

GBF 06.002- GBF 06.009

GBF 06.010- GBF 06.011

GBF 06.017- GBF 06.018

TDS Numbers:

IMO AFFF 3 % - IMO AFFF 6 %

IMO FFFP 3 %- IMO FFFP 6 %

IMO FP 3 %- IMO FP 6 %

IMO P 3%- IMO P 6%

IMO S 4000 3%- IMO S 4000 6%

Declaration of Conformity: F.74/00 (13.05.2022)

Carriage and performance requirements for the manufacturer:

SOLAS 74 Reg. II-2/10, IMO Res. MSC.98(73)-(FSS Code) 6, IMO Res. MSC.98(73)-(FSS Code) 14, IMO MSC/Circ.1239, IMO MSC.1/Circ.1276.

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Test Standards:

IMO MSC.1/Circ.1312, IMO MSC.1/Circ.1312/Corr.1.

# **TEST REPORT(S)**

Issued by KOLAGOM KIMYASALLAR SANAYİİ VE TİCARET LTD.STI Test Laboratory

Accredited Laboratory No: 056422-LB-01/07 (Turkish Standards Institution)

CERT-med (EN05) - Testing Laboratory Evaluation Criteria

Report No: 2208-001-01 Report No: 2208-001-05 Report No: 2208-001-06 Report No: 2208-001-007 Report No: 2208-001-008 Report No: 2208-001-009 Report No: 2208-001-010

# CONDITIONS OF CERTIFICATION

- **1.** The product shall be marked and identified as required by the applicable directive and standards.
- **2.** For the conformity assessment to be complete, the marine equipment must be subjected to an additional procedure, as laid down in Annex B of the directive (Modules D,E or F).
- **3.** If the standards applied for the certification of the product according to Marine Equipment Directive are amended during the validity of this certificate, the product shall be re-approved according to the amended standards.
- **4.** The manufacturer shall take all measures necessary so that the manufacturing process and its monitoring ensure conformity of the manufactured products with the approved type described in the EC type-examination certificate and applicable standards.

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CERT - med / EN 01 (5.4-7.5.18)





# IMO AFFF 3 %

# TECNICAL DATASHEET

#### Product Information:

IMO AFFF 3 % is a high quality fire extinguisher foam with aqueous film forming speciality.

- Aqueous film is formed quickly for extinguishing the fire.
- The safety after fire is provided by back-burning resistance.

It covers the surface of burning liquid, prevents oxygen contact with film-forming, and causes extinquishing fastly by blocking burnback.

#### Environmental ·

IMO AFFF 3 % is harmless and easily biodegradable. It is supported by management system having the certificate of ISO 14001:2015.

#### Applications:

IMO AFFF 3 % is especially used in the petrochemical where the hydrocarbons(gas oil, diesel fuel, kerosene,crude oil) are existed and chemical industry (such as

hydrocarbons, polymers, acrylate, acrylic derivatives), on airports, onshore and offshore area.

#### Performance:

IMO AFFF 3 % is tested at Kolagom quality control laboratory according to the standards for permanently extinguishing performance and reliable product quality and supported by management system having the certificates of ISO 9001:2015 & ISO 45001.

#### Approval:

Our products are certified under IMO MSC1/Circ 1312

#### Effective Mixture Rate:

IMO AFFF 3 % is mixed with water, %3. ( 97mL water +3 mL fire foam konsantration)

# Compatibility:

IMO AFFF 3 % is suitable for usage with sea water or tap water.

K.F.13/02/B REV:00

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# IMO AFFF 3 %

# TECNICAL DATASHEET

# Physical and Chemical Properties:

Apperance	Vallowish, clear
Density	1,04 ± 0,02 g/mL
pH (20°C)	
Viscocity (20°C)	200 mm <sup>2</sup> /second
Surface tension	<21 mN/m
Spreading Coefficient	Positive (> 0)
Freezing Point(°C)	Max -5 °C

# Packaging:

Package	Size	Weight (Full)
30L jerry can	29,4 × 36 cm	30-35 kg
220L open top drums	58,5 × 95 cm	200-250 kg
1000L IBC	100 × 120 × 116cm	1050-1100kg

#### Storage:

Working temperature: min: -5°C max: +50°C

Avoid wetting the package.

Protect from heat and direct sunlight.

Keep in the original packaging.

The bench time is 5 years, when these above conditions are ensured.



# IMO AFFF 6 %

# TECNICAL DATASHEET

# Product Information:

IMO AFFF 6% is a high quality fire extinguisher foam with aqueous film forming speciality.

- Aqueous film is formed quickly for extinguishing the fire.
- The safety after fire is provided by back-burning resistance.

It covers the surface of burning liquid, prevents oxygen contact with film-forming, and causes extinquishing fastly by blocking burnback.

# Environmental ·

IMO AFFF 6% is harmless and easily biodegradable. It is supported by management system having the certificate of ISO 14001:2015.

# Applications:

IMO AFFF 6% is especially used in the petrochemical where the hydrocarbons(gas oil, diesel fuel, kerosene,crude oil) are existed and chemical industry (such as

hydrocarbons, polymers, acrylate, acrylic derivatives), on airports, onshore and offshore area.

# Performance:

IMO AFFF 6% is tested at Kolagom quality control laboratory according to the standards for permanently extinguishing performance and reliable product quality and supported by management system having the certificates of ISO 9001:2015 & ISO 45001.

# Approval:

Our products are certified under IMO MSC.1/Circ.1312.

# Effective Mixture Rate:

IMO AFFF 6 % is mixed with water, %3. ( 94mL water +6 mL fire foam konsantration)

# Compatibility:

IMO AFFF 6 % is suitable for usage with sea water or tap water.

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# IMO AFFF 6 %

# TECNICAL DATASHEET

# Physical and Chemical Properties:

Apperance	
Density	1,02 ± 0,02 g/mL
pH (20°C)	6-9,5
Viscocity (20°C)	< 200 mm²/saniye
Surface tension	<21 mN/m
Spreading Coefficient	Positive (> 0)
Freezing Point(°C)	Max -2 °C

# Packaging:

Package	Size	Weight (Full)
30L jerry can	29,4 x 36 cm	30-35 kg
220L open top drums	58,5 x 95 cm	200-250 kg
1000L IBC	100 × 120 × 116cm	1050-1100kg

#### Storage:

Working temperature: min:  $0^{\circ}C$  max:  $+50^{\circ}C$ Avoid wetting the package.

Protect from heat and direct sunlight.

Keep in the original packaging.

The bench time is 5 years, when these above conditions are ensured.



# IMO FFFP 3 %

# TECNICAL DATASHEET

# Product Information:

IMO FFFP 3 % is a fire extinguisher foam with film forming speciality based on hydrolysed protein formulated with florine compound, stabilisers and antifreezers.

- Allowing long throwing distance.
- The safety after fire is provided by back-burning resistance.

It covers the surface of burning liquid, prevents oxygen contact with film-forming, and causes extinquishing fastly by blocking burnback.

# Environmental ·

IMO FFFP 3 % is harmless and easily biodegradable. It is supported by management system having the certificate of ISO 14001:2015.

# Applications:

IMO FFFP 3 % is especially used in the petrochemical where the hydrocarbons(gas oil, diesel fuel, kerosene,crude oil) are existed and chemical industry (such as

hydrocarbons, polymers, acrylate, acrylic derivatives), on airports, onshore and offshore area.

# Performance:

IMO FFFP 3 % is tested at Kolagom quality control laboratory according to the standards for permanently extinguishing performance and reliable product quality and supported by management system having the certificate of ISO 9001:2015 & BS OHSAS 18001:2007.

# Approval:

Our products are certified under IMO MSC.1/Circ.1312.

# Effective Mixture Rate:

IMO FFFP 3 % is mixed with water, %3. ( 97mL water +3 mL fire foam consantration)

# Compatibility:

IMO FFFP 3 % is suitable for usage with sea water or tap water.

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#### IMO FFFP 3 %

# TECNICAL DATASHEET

# Physical and Chemical Properties:

Apperance	Dark Brown, Liquid
Density	1,13 ± 0,02 g/mL
pH (20°C)	6 - 9,5
Viscocity (20°C)	<200 mm <sup>2</sup> /second
Surface Tension	<21 mN/m
Spreading Coefficient	>0 mN/m
Freezing point (°C)	Max -5°C

# Packaging:

Package	Size	Weight (Full)
30L jerry can	.29,4 × 36 cm	.30-37 kg
220L open top drums	58,5 × 95 cm	.220-250 kg
1000L IBC	100 x 120 x 116cm	1100-1250kg

# Storage:

Working temperature: min: -5°C max: +50°C Avoid wetting the package. Protect from heat and direct sunlight. Keep in the original packaging.

The bench time is 5 years, when these above conditions are ensured.

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CERT - med / EN 01 (5.4-7.5.18)



# **K** KOLAGOM

# IMO FFFP 6 %

# TECNICAL DATASHEET

#### Product Information:

IMO FFFP 6% is a fire extinguisher foam with film forming speciality based on hydrolysed protein formulated with florine compound, stabilisers and antifreezers.

- Allowing long throwing distance.
- The safety after fire is provided by back-burning resistance.

It covers the surface of burning liquid, prevents oxygen contact with film-forming, and causes extinquishing fastly by blocking burnback.

#### Environmental ·

IMO FFFP 6% is harmless and easily biodegradable. It is supported by management system having the certificate of ISO 14001:2015.

# Applications:

IMO FFFP 6% is especially used in the petrochemical where the hydrocarbons(gas oil, diesel fuel, kerosene,crude oil) are existed and chemical industry (such as

hydrocarbons, polymers, acrylate, acrylic derivatives), on airports, onshore and offshore area.

#### Performance:

IMO FFFP 6% is tested at Kolagom quality control laboratory according to the standards for permanently extinguishing performance and reliable product quality and supported by management system having the certificate of ISO 9001:2015 & ISO 45001

#### Approval:

Our products are certified under IMO MSC.1/Circ.1312.

#### Effective Mixture Rate:

IMO FFFP 6% is mixed with water, %6. ( 94 mL water + 6 mL fire foam consantration)

# Compatibility:

IMO FFFP 6% is suitable for usage with sea water or tap water.



# IMO FFFP 6 %

# TECNICAL DATASHEET

# Physical and Chemical Properties:

Apperance	Darkbrown, liquid
Density	. 1,08 ± 0,02 g/mL
pH (20°C)	. 6-9,5
Viscosity (20°C)	. < 200 mm <sup>2</sup> /second
Surface Tension	<21 mN/m
Spreading Coefficient	Positive (>0) mN/m
Freezing Point (°C)	Max -4°C

# Packaging:

Package	Size	Weight (Full)
30L jerry can	29,4 x 36 cm	30-37 kg
220L open top drums	58,5 x 95 cm	220-250 kg
1000L IBC	100 × 120 × 116cm	1100-1250kg

# Storage:

Working temperature: min:  $0^{\circ}C$  max:  $+60^{\circ}C$ Avoid wetting the package.

Protect from heat and direct sunlight.

Keep in the original packaging.

The bench time is 5 years, when these above conditions are ensured.

EBETAM A.E.

CERT - med / EN 01 (5.4-7.5.18)





# IMO FP 3 %

# TECNICAL DATASHEET

# Product Information:

IMO FP 3% is a fire extinguisher speacial foam based on hydrolysed protein formulated with florine compound, stabilisers and anti freezers.

- Allowing long throwing distance.
- The safety after fire is provided by back-burning resistance.

It covers the fire, chokes it and causes to extinguish by getting cold. .

#### Environmental ·

IMO FP 3% is harmless and easily biodegradable. It is supported by management system having the certificate of ISO 14001:2015.

# Applications:

IMO FP 3% is used in class A and B fires. Especially used in the petrochemical where the hydrocarbons (gas oil, diesel fuel, kerosene, crude oil) are existed at storage/processes and on airports, onshore and offshore area.

# Performance:

IMO FP 3% is tested at Kolagom quality control laboratory according to the standards for permanently extinguishing performance and reliable product quality and supported by management system having the certificate of ISO 9001:2015 & ISO 45001.

# Approval:

Our products are certified under IMO MSC.1/Circ.1312.

#### Effective Mixture Rate:

IMO FP 3% is mixed with water, (97mL water + 3 mL fire foam consantration)

#### Compatibility:

IMO FP 3% is suitable for usage with sea water or tap water.



# IMO FP 3 %

# TECNICAL DATASHEET

# Physical and Chemical Properties:

Apperance	Dark Brown , Liquid
Density.	1.14 ± 0.02 g/mL
pH (20°C)	6-9,5
Viscosity (20°C)	< 200 mm <sup>2</sup> /second
Freezing point (°C)	Max5°C

# Packaging:

Package	Size	Weight (Full)
30L jerry can	29,4 × 36 cm	30-40 kg
220L open top drums	58,5 × 95 cm	220-250 kg
1000L IBC	100 × 120 × 116cm	1100-1250kg

# Storage:

Working temperature: min:  $-5^{\circ}C$  max:  $+50^{\circ}C$ Avoid wetting the package.

Protect from heat and direct sunlight.

Keep in the original packaging.

The bench time is 5 years, when these above conditions are ensured.

EBETAM A.E.

CERT - med / EN 01 (5.4-7.5.18)





# IMO FP 6 %

# TECNICAL DATASHEET

#### Product Information:

IMO FP 6% is a fire extinguisher speacial foam based on hydrolysed protein formulated with florine compound, stabilisers and anti freezers.

- Allowing long throwing distance.
- The safety after fire is provided by back-burning resistance.

It covers the fire, chokes it and causes to extinguish by getting cold. .

## Environmental ·

IMO FP 6% is harmless and easily biodegradable. It is supported by management system having the certificate of ISO 14001:2015.

#### Applications:

IMO FP 6% is used in class A and B fires. Especially used in the petrochemical where the hydrocarbons (gas oil, diesel fuel, kerosene, crude oil) are existed at storage/processes and on airports, on shore and offshore area.

#### Performance:

IMO FP 6% is tested at Kolagom quality control laboratory according to the standards for permanently extinguishing performance and reliable product quality and supported by management system having the certificate of ISO 9001:2015 & ISO 45001

#### Approval:

Our products are certified under IMO MSC.1/Circ.1312.

#### Effective Mixture Rate:

IMO FP 6% is mixed with water,. (94mL water + 6 mL fire foam consantration)

# Compatibility:

IMO FP 6% is suitable for usage with sea water or tap water.



# IMO FP 6 %

# TECNICAL DATASHEET

# Physical and Chemical Properties:

Apperance	Dark Brown , Liquid
Density.	1.08 ± 0.02 g/mL
pH (20°C)	6-9,5
Viscosity (20°C)	< 200 mm <sup>2</sup> /second
Freezing point (°C)	Max4°C

# Packaging:

Package	Size	Weight (Full)
30L jerry can	29,4 × 36 cm	30-40 kg
220L open top drums	58,5 × 95 cm	220-250 kg
1000L IBC	100 × 120 × 116cm	1100-1250kg

# Storage:

Working temperature: min: 0°C max: +50°C Avoid wetting the package.

Protect from heat and direct sunlight.

Keep in the original packaging.

The bench time is 5 years, when these above conditions are ensured.

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CERT - med / EN 01 (5.4-7.5.18)





# IMO P 3%

# TECHNICAL DATASHEET

#### Product Description

The protein is liquid based and is a stable foam.

- Has a long half-life.
- · Creates high temperature resistant

It covers the fire and extinguishes it by strangling. It cools the fire and causes it to extinguish in a short time.

#### Environment:

IMO P 3% is harmless and easily biodegradable. It has no toxic effect on aquatic organisms. It is supported by management system having the certificate of ISO 14001:2015.

#### Applications:

A and B class fires; wettable materials in the lignite, coal, cotton, paper, wood industries; portable and fixed systems.

It is used in petrochemical and chemical industry where there are flammable liquids such as hydrocarbons (gas oil, diesel oil, diesel fuel, kerosene, crude oil), airports, onshore - offshore platforms.

#### Performance:

IMO P 3% is tested at Kolagom quality control laboratory according to the standards for permanently extinguishing performance and reliable product quality and supported by management system having the certificates of ISO 9001:2015 & ISO 45001.

#### Approval:

Our products are certified under IMO MSC.1/Circ.1312.

#### Effective Mixture Rate:

IMO P 3% is mixed with water, %3. ( 97mL water +3 mL fire foam konsantration)

#### Compatibility

IMO P 3% is suitable for usage with sea water or tap water.

It can be used in systems with dry extinguishing powders or in different time periods.



# IMO P 3%

# TECHNICAL DATASHEET

# Physical and Chemical Properties:

Apperance	Brown, liquid.
Density	1,14 ±0,02 g/mL
pH (20°C)	6-9,5
	< 200 mm <sup>2</sup> /second
Freezing Point(°C)	Max -5°C

# Packaging<sup>\*</sup>

Package	Size	Weight (Full)
30L jerry can	29,4 x 36 cm	30-35 kg
220L open top drums	58,5 x 95 cm	200-250 kg
1000L IBC	100 × 120 × 116cm	1050-1100kg

# Storage:

Working temperature: min: -5°C max: +50°C

Avoid wetting the package.

Protect from heat and direct sunlight.

Keep in the original packaging.

The bench time is 5 years, when these above conditions are ensured.

EBETAM A.E.

CERT - med / EN 01 (5.4-7.5.18)





# IMO P 6%

# TECHNICAL DATASHEET

#### Product Description:

The protein is liquid based and is a stable foam.

- · Creates high temperature resistant cover.

It covers the fire and extinguishes it by strangling. It cools the fire and causes it to extinguish in a short time.

#### Environment

IMO P 6% is harmless and easily biodegradable. It has no toxic effect on aquatic organisms. It is supported by system having certificate of ISO 14001:2015.

#### Applications:

A and B class fires; wettable materials in the lignite, coal, cotton, paper, wood industries; portable and fixed systems. It is used in petrochemical and chemical industry where there are flammable

liquids such as hydrocarbons (gas oil,

diesel oil, diesel fuel, kerosene, crude

oil), airports, onshore -

control laboratory according to the standards for permanently permanently extinguishing performance and reliable product quality and supported by management system having the certificates of ISO 9001:2015 & ISO 45001.

IMO P 6% is tested at Kolagom quality

#### Approval-

platforms.

Performance:

Our products are certified under IMO MSC 1/Circ 1312

#### Effective Mixture Rate:

IMO P 6% is mixed with water, %6. ( Q4ml water +6 mL fire foam konsantration)

#### Compatibility:

IMO P 6% is suitable for usage with sea water or tap water.

It can be used in systems with dry extinguishing powders or in different time periods.



# IMO P 6%

# TECHNICAL DATASHEET

# Physical and Chemical Properties:

J	Apperance	Brown	, IIquia.
ı	Density	1,07 ±0	0,02 g/mL
	pH (20°C)	6-9,5	
1	Viscocity (20°C)	< 200	mm2/second
	Freezing Point(°C)		

# Packaging<sup>1</sup>

Package	Size	Weight (Full)
30L jerry can	29,4 x 36 cm	30-35 kg
220L open top drums	58,5 x 95 cm	200-250 kg
1000L IBC	100 × 120 × 116cm	1050-1100kg

Working temperature: min: -2°C max: +50°C

Avoid wetting the package.

Protect from heat and direct sunlight.

Keep in the original packaging.

The bench time is 5 years, when these above conditions are ensured.

EBETAM A.E.

CERT - med / EN 01 (5.4-7.5.18)





# IMO S 4000 3%

# TECNICAL DATASHEET

# Product Description:

It is a synthetic based low expansion fire fighting foam concentrate.

In case of first contact with fire, it produces high vapor. Reduces oxygen in the fire, suffocates the fire and extinguishes the fire.

#### Environment:

IMO S 4000 3% is harmless and easily biodegradable. It has no toxic effect on aquatic organisms. It is supported by management system having the certificate of ISO 14001:2015.

#### Applications:

A and B class fires; wettable materials in the lignite, coal, cotton, paper, wood industries; IMO S 4000 3% is suitable for use in portable and fixed systems.

# Performance:

IMO S 4000 3% is tested at Kolagom quality control laboratory according to the standards for permanently extinguishing performance and reliable product quality and supported by management system having the certificates of ISO 9001:2015 & ISO 45001.

#### Approval:

Our products are certified under IMO MSC.1/Circ.1312.

#### Effective Mixture Rate:

IMO 5 4000 3% is mixed with water, %3. ( 97mL water +3 mL fire foam konsantration)

#### Compatibility:

IMO S 4000 3% is suitable for usage with sea water or tap water.

It can be used in systems with dry extinguishing powders or in different time periods.



# IMO 5 4000 3%

# TECNICAL DATASHEET

# Physical and Chemical Properties:

Apperance	. Colorless, clear.
Density	1,03 ±0,02 g/mL
pH (20°C)	6-9,5
Viscocity (20°C)	< 200 mm <sup>2</sup> /second
Freezing Point(°C)	

# Packaging<sup>1</sup>

Package	Size	Weight (Full)
30L jerry can	29,4 x 36 cm	30-35 kg
220L open top drums	58,5 x 95 cm	200-250 kg
1000L IBC	100 × 120 × 116cm	1050-1100kg

# Storage:

Working temperature: min: -5°C max: +50°C

Avoid wetting the package.

Protect from heat and direct sunlight.

Keep in the original packaging.

The bench time is 5 years, when these above conditions are ensured.

# EBETAM A.E.

CERT - med / EN 01 (5.4-7.5.18)

# EBETAM

# **CERTIFICATE**

# of Conformity to Module D (Production Quality Assurance) according to Directive 2014/90/EU

Certificate No: ME-C-0308/D/1/22

**Notification No of the Certification Body: 0437** 

Date of issue: 06.12.2022 Test Report No: 25873/1/22

Name and Address KOLAGOM Kimyasallar San.ve Tic. Ltd. Şti

of the Manufacturer: Eyüp Sultan Mah. Mehmet Akif Cad. As Plaza No:3/A K:2

P.K. 34885 Sancaktepe-İstanbul –TURKEY

Name and Address of the Kral Fire Safety Import and Export Limited Company

Authorised Representative: 2B Serdika Str. 3rd Floor, Office 1/ Art. 3.L

**Burgas, BULGARIA** 

Product Type: AFFF/Aqueous Film Forming Foam Concentrate

(3%-6%), FFFP/Film Forming Fluor protein Foam Concentrate (3%-6%), FP/Fluor Protein Foam Concentrate (3%-6%), P/ Protein Foam Concentrate (%3-6%), S 4000/

Synthetic Foam Concentrate (3%-6%)

Item No: MED/3.58 Fixed Low Expansion Foam Fire Extinguishing

Systems Components for Machinery Spaces and Tanker

**Deck Protection** 

EC-Type Certificate No: ME-C-0307/B/1/22

Expiry Date of the Certificate: 05.12.2025

MIRTEC S.A. certifies that the above manufacturer operates an approved quality assurance system for production, final inspection and testing of the specific product type.

# Declaration

The manufacturer or the authorized representative is - after examination of the prerequisites - authorized to provide the marine equipment manufactured within the scope of the examination, with the notification number next to the wheel – mark followed by the year in which the mark is affixed, as illustrated below:



0437/XX

This certificate remains valid provided that the Manufacturer's Quality System is subjected to annual surveillance by the Notified Body.



For MIRTEC S.A.

Digitally signed by

Kalliopi Diamanti

Head of Pressure Equipment & Construction Products Sector Mechanical Engineer, PhD, IWE



For the Evaluation Dpt.

Digitally signed by

Kleomenis Papadopoulos

Mechanical Engineer

EBETAM A.E

CERT-med/EN02A (5.5 / 15.4.19)

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# BETAM

# **CERTIFICATE**

# EC TYPE- EXAMINATION (MODULE B) ACCORDING TO THE DIRECTIVE 2014/90/EU

Certificate No: ME-C-0309/B/1/22

Notification No of the Certification Body: 0437

Date of issue: 06.12.2022 Test Report No: ME-R-0309/B/1/22

Name and Address KOLAGOM Kimyasallar San.ve Tic. Ltd. Şti

of the Manufacturer: Eyüp Sultan Mah. Mehmet Akif Cad. As Plaza No:3/A

K:2 P.K. 34885 Sancaktepe, İstanbul, TURKEY

Name and Address of the Kral Fire Safety Import and Export Limited Company

Authorised Representative: 2B Serdika Str. 3rd Floor, Office 1/ Art. 3.L

**Burgas, BULGARIA** 

Product Type: AR-AFFF / Alcohol-Resistant Aqueous Film Forming

(3x3) % - (6x6) %, AR-FFFP / Alcohol –Resistant Film Forming (3x3) % - (6x6) %, AR-FP/ Alcohol-Resistant

Aqueous Film Forming(3x3) % - (6x6) %

Item No: MED/3.59 Expansion Foam for Fixed Fire

**Extinguishing Systems for Chemical Tankers** 

Regulations & Standards: 2014/90 EU, (EU) 2022/1157, SOLAS 74 Reg. II-2/1,

IMO Res. MSC.4(48) - (IBC Code) 11

MSC.1/Circ.1312, IMO MSC.1/Circ.1312/Corr.1.

Expiry Date of the Certificate: 05.12.2027

# **DECLARATION**

MIRTEC S.A. certifies that the type mentioned above satisfies the provisions of the Directive 2014/90/EU. For the conformity assessment to be complete, the marine equipment must be subjected to an additional procedure, as laid down in Annex B of the Directive (Modules D, E or F).

The applicant must inform the notified body of all modifications to the approved marine equipment

ANNEX: List of relevant parts of technical documentation

# For MIRTEC S.A.



Product Certification Cert. No 27 Digitally signed by

Kalliopi Diamanti

Head of Pressure Equipment & Construction Products Sector Mechanical Engineer, PhD, IWE



For the Evaluation Dpt.

Digitally signed by

Kleomenis Papadopoulos

Mechanical Engineer

ZKITION ZTYNANOZ ATOZTOMAKH

SKIPION STYLIANOS APOSTOLAKIS Dec 8 2022 12:49 PM

EBETAM A.E.

CERT - med / EN 01 (5.4-7.5.18)

# BETAM

# **CERTIFICATE**

# EC TYPE- EXAMINATION (MODULE B) ACCORDING TO THE DIRECTIVE 2014/90/EU

Certificate No: ME-C-0309/B/1/22

Notification No of the Certification Body: 0437

Date of issue: 06.12.2022 Test Report No: ME-R-0309/B/1/22

Name and Address KOLAGOM Kimyasallar San.ve Tic. Ltd. Şti

of the Manufacturer: Eyüp Sultan Mah. Mehmet Akif Cad. As Plaza No:3/A

K:2 P.K. 34885 Sancaktepe, İstanbul, TURKEY

Name and Address of the Kral Fire Safety Import and Export Limited Company

Authorised Representative: 2B Serdika Str. 3rd Floor, Office 1/ Art. 3.L

**Burgas, BULGARIA** 

Product Type: AR-AFFF / Alcohol-Resistant Aqueous Film Forming

(3x3) % - (6x6) %, AR-FFFP / Alcohol –Resistant Film Forming (3x3) % - (6x6) %, AR-FP/ Alcohol-Resistant

Aqueous Film Forming(3x3) % - (6x6) %

Item No: MED/3.59 Expansion Foam for Fixed Fire

**Extinguishing Systems for Chemical Tankers** 

Regulations & Standards: 2014/90 EU, (EU) 2022/1157, SOLAS 74 Reg. II-2/1,

IMO Res. MSC.4(48) - (IBC Code) 11

MSC.1/Circ.1312, IMO MSC.1/Circ.1312/Corr.1.

Expiry Date of the Certificate: 05.12.2027

# **DECLARATION**

MIRTEC S.A. certifies that the type mentioned above satisfies the provisions of the Directive 2014/90/EU. For the conformity assessment to be complete, the marine equipment must be subjected to an additional procedure, as laid down in Annex B of the Directive (Modules D, E or F).

The applicant must inform the notified body of all modifications to the approved marine equipment **ANNEX**: List of relevant parts of technical documentation

For MIRTEC S.A.

ESYD

Product Certification Cert. No 27 Digitally signed by

Kalliopi Diamanti

Head of Pressure Equipment & Construction Products Sector Mechanical Engineer, PhD, IWE



For the Evaluation Dpt.

Digitally signed by

Kleomenis Papadopoulos

Mechanical Engineer

ZKITION ZTYNANOZ ATOZTONAKH

SKIPION STYLIANOS APOSTOLAKIS Dec 8 2022 12:49 PM

EBETAM A.E

CERT - med / EN 01 (5.4-7.5.18)

# EBETAM

# Annex to

# Marine Equipment Directive Module B

Type Examination Certificate Nr: ME-C-0309/B/1/22

**DESCRIPTION OF PRODUCT:** MED/3.59 Expansion Foam for Fixed Fire

**Extinguishing Systems for Chemical Tankers** 

MODEL: AR-AFFF (3x3) % - (6x6) %, AR-FFFP (3x3) % - (6x6)

%, AR-FP/ (3x3) % - (6x6) %

MANUFACTURER: KOLAGOM KIMYASALLAR SANAYİİ VE TİCARET

LTD.STI

ADDRESS Eyüp Sultan Mah. Mehmet Akif Cad. As Plaza No:3/A

K:2 P.K. 34885 Sancaktepe- İstanbul – TURKEY

Name and Address of the Kral Fire Safety Import and Export Limited Company

Authorised Representative: 2B Serdika Str. 3rd Floor, Office 1/ Art. 3.L

**Burgas, BULGARIA** 

# **RELEVANT DOCUMENTATION**

Technical File (Kolagom)

MSDS Numbers:

GBF 06.014- GBF 06.004

GBF 06.005- GBF 06.015

GBF 06.002- GBF 06.009

**TDS Numbers:** 

IMO-AFFF-AR (6x6) %

IMO-AFFF-AR (3x3) %

IMO FFFP-AR (3x3) %

IMO FFFP-AR (6x6) %

IMO-FP--AR (3x3) %

IMO-FP--AR (6x6) %

Declaration of Conformity: F.74/00 (13.05.2022)

Carriage and performance requirements for the manufacturer:

IMO Res. MSC.4(48) - (IBC Code) 11, IMO MSC/Circ.553.

Test Standards:

IMO MSC.1/Circ.1312, IMO MSC.1/Circ.1312/Corr.1.

EBETAM A.E.

CERT - med / EN 01 (5.4-7.5.18)



# **TEST REPORT(S)**

Issued by KOLAGOM KIMYASALLAR SANAYİİ VE TİCARET LTD.STI Test Laboratory

Accredited Laboratory No: 056422-LB-01/07 (Turkish Standards Institution) CERT-med (EN05) - Testing Laboratory Evaluation Criteria

Report No:2208-001-02 Report No:2208-001-03 Report No:2208-001-04

# **CONDITIONS OF CERTIFICATION**

- **1.** The product shall be marked and identified as required by the applicable directive and standards.
- **2.** For the conformity assessment to be complete, the marine equipment must be subjected to an additional procedure, as laid down in Annex B of the directive (Modules D,E or F).
- **3.** If the standards applied for the certification of the product according to Marine Equipment Directive are amended during the validity of this certificate, the product shall be re-approved according to the amended standards.
- **4.** The manufacturer shall take all measures necessary so that the manufacturing process and its monitoring ensure conformity of the manufactured products with the approved type described in the EC type-examination certificate and applicable standards.

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CERT - med / EN 01 (5.4-7.5.18)





# IMO AFFF-AR 6X6 %

# TECHNICAL DATASHEET

#### Product Information:

IMO AFFF-AR 6X6 % is a high quality fire-extinguishing foam concentrate with an alcohol-resistant aqueous filmforming property.

- Multi purpose usage
- Quick film forming effect on fire

It covers the surface of burning liquid, prevents oxygen contact with insoluble alcohol resistance film-forming, and causes extinquishing fastly by blocking burnback.

#### Environmental ·

It is harmless and easily biodegradable. It is supported by management system having the certificate of ISO 14001:2015.

#### Applications:

IMO AFFF-AR 6X6 % is used in class A and B fire. It protects the foam from solvent by forming an insoluble film on the polar solvents and chemicals such as acetone, IPA,MEK, MTBE,TBA..vs.

#### Performance:

It is tested at Kolagom quality control laboratory according to the standards for permanently extinguishing performance and reliable product quality and supported by management system having the certificate of ISO 9001:2015 & ISO 45001.

# Approval:

Our products are certified under IMO MSC.1/Circ.1312.

#### Effective Mixture Rate:

It is mixed with water, %6. ( 94mL water + 6 mL fire foam consantration)

# Compatibility:

It is suitable for usage with sea water or tap water.



# IMO AFFF-AR 6X6 %

# TECHNICAL DATASHEET

# Physical and Chemical Properties:

Apperance	Yellowish , Liquid
Density.	1,02 ± 0,02 g/mL
pH (20°C)	. 6 -9,5
Viscosity (20°C)	>200 mm²/saniye
Surface Tension	. <21 mN/m
Spreading Coefficient	Positive (20)
Freezing point (°C)	. Max -1°C

# Packaging:

Package	Size	Weight (Full)
30L jerry can	29,4 x 36 cm	30-35 kg
220L open top drums	58,5 × 95 cm	200-250 kg
1000L IBC	100 × 120 × 116cm	1050-1100kg

# Storage:

Working temperature: min: 0°C max: +50°C Avoid wetting the package.

Protect from heat and direct sunlight.

Keep in the original packaging.

The bench time is 5 years, when these above conditions are ensured.

EBETAM A.E.

CERT - med / EN 01 (5.4-7.5.18)





# IMO AFFF-AR (3X3) %

# TECHNICAL DATASHEET

#### Product Information:

IMO AFFF-AR 3X3% is a high quality fire-extinguishing foam concentrate with an alcohol-resistant aqueous filmforming property.

- Multi purpose usage
- · Quick film forming effect on fire

It covers the surface of burning liquid, prevents oxygen contact with insoluble alcohol resistance film-forming, and causes extinquishing fastly by blocking burnback

#### Environmental ·

It is harmless and easily biodegradable.

It is supported by management system having the certificate of ISO 14001:2015.

# Applications:

IMO AFFF-AR 3X3% is used in class A and B fire. It protects the foam from solvent by forming an insoluble film on the polar solvents and chemicals such as acetone, IPA,MEK, MTBE,TBA..vs.

#### Performance:

It is tested at Kolagom quality control laboratory according to the standards for permanently extinguishing performance and reliable product quality and supported by management system having the certificate of ISO 9001:2015 & ISO 45001.

#### Approval:

Our products are certified under IMO MSC.1/Circ.1312.

# Effective Mixture Rate:

It is mixed with water, %3. ( 97mL water +3 mL fire foam consantration)

# Compatibility:

It is suitable for usage with sea water or tap water.



# IMO AFFF-AR (3X3) %

# TECHNICAL DATASHEET

# Physical and Chemical Properties:

Apperance	Yellowish , Liquid
Density.	1,04 ± 0,02 g/mL
pH (20°C)	. 6 -9,5
Viscosity (20°C)	>200 mm²/saniye
Surface Tension	. <21 mN/m
Spreading Coefficient	. Positive (> 0)
Freezing point (°C)	Max -5°C

# Packaging:

Package	Size	Weight (Full)
30L jerry can	29,4 × 36 cm	30-35 kg
220L open top drums	58,5 × 95 cm	200-250 kg
1000L IBC	100 × 120 × 116cm	1050-1100kg

# Storage:

Working temperature: min: -5°C max: +50°C

Avoid wetting the package.

Protect from heat and direct sunlight.

Keep in the original packaging.

The bench time is 5 years, when these above conditions are ensured.

EBETAM A.E.

CERT - med / EN 01 (5.4-7.5.18)



# **K** KOLAGOM

# IMO FFFP-AR (3x3) %

# TECHNICAL DATASHEET

#### Product Information:

IMO FFFP-AR 3×3 % is a fire extinguisher foam with alcohol resistance film forming speciality based on hydrolysed protein formulated with florine compound, stabilisers and anti-

- Allowing long throwing distance.
- The safety after fire is provided by back-burning resistance.

It covers the surface of burning liquid, prevents oxygen contact with insoluble alcohol resistance film-forming, and causes extinquishing fastly by blocking burnback.

#### Environmental ·

It is harmless and easily biodegradable. It is supported by management system having the certificate of ISO 14001:2015.

#### Applications:

IMO FFFP-AR 3x3 % is used in class A and B fire. Especially used in the polar solvents (alcohols, ketones, such as ethers) and the wide range of liquid hydrocarbons (gasoline, diesel, diesel fuel, kerosene, crude oil) storageprocessing-transporting at power plants, on airports, onshore and offshore area.

#### Performance:

It is tested at Kolagom quality control laboratory according to the standards for permanently extinguishing performance and reliable product quality and supported by management system having the certificate of ISO 9001:2015 & ISO 45001.

#### Approval:

Our products are certified under IMO MSC.1/Circ.1312.

# Effective Mixture Rate:

It is mixed with water, %3. ( 97mL water +3 mL fire foam consantration)

#### Compatibility:

IMO FFFP-AR 3x3 % is suitable for usage with sea water or tap water.



# IMO FFFP-AR (3×3) %

# TECHNICAL DATASHEET

# Physical and Chemical Properties:

Apperance	Dark Brown , Liquid
Density.	1,11 ± 0,02 g/mL
pH (20°C)	6-9,6
Viscosity (20°C)	>200 mm <sup>2</sup> /saniye
Surface Tension	<21 mN/m
Spreading Coefficient	> 0
Freezing point (°C)	. Max -5°C

# Packaging:

Package	Size	Weight (Full)
30L jerry can	29,4 × 36 cm	30-35 kg
220L open top drums	58,5 × 95 cm	200-250 kg
1000L TBC	100 x 120 x 116cm	1090-1200kg

# Storage:

Working temperature: min: -5°C max: +50°C Avoid wetting the package. Protect from heat and direct sunlight.

Keep in the original packaging. The bench time is 5 years, when these above conditions are ensured.

EBETAM A.E.

CERT - med / EN 01 (5.4-7.5.18)



# **ढ़** KOLAGOM

# IMO FFFP-AR (6×6) %

# TECHNICAL DATASHEET

#### Product Information:

IMO FFFP-AR 6x6 % is a fire extinguisher foam with alcohol resistance film forming speciality based on hydrolysed protein formulated with florine compound, stabilisers and antifreezers

- Allowing long throwing distance.
- The safety after fire is provided by back-burning resistance.

It covers the surface of burning liquid, prevents oxygen contact with insoluble alcohol resistance film-forming, and causes extinquishing fastly by blocking burnback.

#### Environmental ·

It is harmless and easily biodegradable.
It is supported by management system having the certificate of ISO 14001:2015.

#### Applications:

IMO FFFP-AR 6x6 % is used in class A and B fire. Especially used in the polar solvents (alcohols, ketones, such as ethers) and the wide range of liquid hydrocarbons (gasoline, diesel, diesel fuel, kerosene, crude oil) storageprocessing-transporting at power plants on airports, onshore and offshore area.

#### Performance:

It is tested at Kolagom quality control laboratory according to the standards for permanently extinguishing performance and reliable product quality and supported by management system having the certificate of ISO 9001:2015 & ISO 45001.

#### Approval:

Our products are certified under IMO MSC.1/Circ.1312.

#### Effective Mixture Rate:

It is mixed with water, %6. ( 94 mL water + 4 mL fire foam consantration)

#### Compatibility:

IMO FFFP-AR 6x6 % is suitable for usage with sea water or tap water.



# IMO FFFP-AR (6x6) %

# TECHNICAL DATASHEET

# Physical and Chemical Properties:

Apperance	Dark Brown , Liquid
Density.	1,06 ± 0,02 g/mL
pH (20°C)	. 6-9,5
Viscosity (20°C)	>200 mm <sup>2</sup> /second
Surface Tension	. <21 mN/m
Spreading Coefficient	Positive (>0)
Freezing point (°C)	. Мах -Б°С

# Packaging:

Package	Size	Weight (Full)
30L jerry can	29,4 × 36 cm	30-35 kg
220L open top drums	58,5 × 95 cm	200-250 kg
1000L IBC	100 × 120 × 116cm	1090-1200kg

# Storage:

Working temperature: min: 0°C max: +50°C

Avoid wetting the package.

Protect from heat and direct sunlight.

Keep in the original packaging.

The bench time is 5 years, when these above conditions are ensured.

# EBETAM A.E.

CERT - med / EN 01 (5.4-7.5.18)





# IMO FP-AR (3×3) %

# TECHNICAL DATASHEET

# Product Information:

IMO FP-AR 3x3 % is a fire extinguisher foam with alcohol resistance based on hydrolysed protein formulated with florine compound.

 The safety after fire is provided by back-burning resistance.

It covers the surface of burning liquid, and prevent the oxygen contact, finaly causes extinquishing fastly by blocking burnback.

#### Environmental ·

IMO FP-AR 3×3 % is harmless and easily biodegradable. It is supported by management system having the certificate of ISO 14001:2015.

# Applications:

IMO FP-AR 3x3 % is used in class A and B fire. Especially used in the polar solvents (alcohols, ketones, such as ethers) and flammable hydrocarbons storage-processing-transporting at marine terminals, onshore and offshore area.

#### Performance:

IMO FP-AR 3x3 % is tested at Kolagom quality control laboratory according to the standards for permanently extinguishing performance and reliable product quality and supported by management system having the certificate of ISO 9001:2015 & ISO 45001.

# Approval:

Our products are certified under IMO MSC.1/Circ.1312.

#### Effective Mixture Rate:

IMO FP-AR 3x3 % is mixed with water, %3. ( 97mL water +3 mL fire foam consantration)

# Compatibility:

IMO FP-AR 3x3 % is suitable for usage with sea water or tap water.



# IMO FP-AR (3×3) %

# TECHNICAL DATASHEET

# Physical and Chemical Properties:

Apperance	Dark Brown , Liquid
Density.	1,12 ± 0,02 g/mL
pH (20°C)	6-9,5
Viscosity (20°C)	>200 mm <sup>2</sup> /saniye
Freezing point (°C)	. Мах -Б <sup>0</sup> С

# Packaging:

Package	Size	Weight (Full)
30L jerry can	29,4 × 36 cm	30-35 kg
220L open top drums	58,5 x 95 cm	200-250 kg
1000L IBC	100 × 120 × 116cm	1090-1200kg

# Storage:

Working temperature: min: -5°C max: +50°C Avoid wetting the package.

Protect from heat and direct sunlight.

Keep in the original packaging.

The bench time is 5 years, when these above conditions are ensured.

# EBETAM A.E.

CERT - med / EN 01 (5.4-7.5.18)





# IMO FP-AR (6x6) %

# TECHNICAL DATASHEET

#### Product Information:

IMO FP-AR 6x6 % is a fire extinguisher foam with alcohol resistance based on hydrolysed protein formulated with florine compound.

 The safety after fire is provided by back-burning resistance.

It covers the surface of burning liquid, and prevent the oxygen contact, finaly causes extinquishing fastly by blocking burnback.

# Environmental ·

IMO FP-AR 6x6 % is harmless and easily biodegradable. It is supported by management system having the certificate of ISO 14001:2015.

# Applications:

IMO FP-AR 6x6 % is used in class A and B fire. Especially used in the polar solvents (alcohols, ketones, such as ethers) and flammable hydrocarbons storage-processing-transporting at marine terminals, onshore and offshore area.

#### Performance:

IMO FP-AR 6x6 % is tested at Kolagom quality control laboratory according to the standards for permanently extinguishing performance and reliable product quality and supported by management system having the certificate of ISO 9001:2015 & ISO 45001.

# Approval:

Our products are certified under IMO MSC.1/Circ.1312.

#### Effective Mixture Rate:

IMO FP-AR 6x6 % is mixed with water, %6. ( 94 mL water + 6 mL fire foam consantration)

# Compatibility:

IMO FP-AR 6x6 % is suitable for usage with sea water or tap water.



# IMO FP-AR (6x6) %

# TECHNICAL DATASHEET

# Physical and Chemical Properties:

Apperance	Dark Brown , Liquid
Density.	1,06 ± 0,02 g/mL
pH (20°C)	6-9,5
Viscosity (20°C)	>200 mm <sup>2</sup> /saniye
Freezing point (°C)	Max -3°C

# Packaging:

Package	Size	Weight (Full)
30L jerry can	29,4 x 36 cm	30-35 kg
220L open top drums	58,5 × 95 cm	200-250 kg
1000L IBC	100 × 120 × 116cm	1090-1200kg

# Storage:

Working temperature: min: 0°C max: +50°C Avoid wetting the package.

Protect from heat and direct sunlight.

Keep in the original packaging.

The bench time is 5 years, when these above conditions are ensured.

# EBETAM A.E.

CERT - med / EN 01 (5.4-7.5.18)



# **CERTIFICATE**

# of Conformity to Module D (Production Quality Assurance) according to Directive 2014/90/EU

Certificate No: ME-C-0310/D/1/22

Notification No of the Certification Body: 0437

Date of issue: 06.12.2022 Test Report No: 25873/1/22

Name and Address KOLAGOM Kimyasallar San.ve Tic. Ltd. Şti

of the Manufacturer: Eyüp Sultan Mah. Mehmet Akif Cad. As Plaza No:3/A K:2

P.K. 34885 Sancaktepe, İstanbul, TURKEY

Name and Address of the Kral Fire Safety Import and Export Limited Company

Authorised Representative: 2B Serdika Str. 3rd Floor, Office 1/ Art. 3.L

**Burgas, BULGARIA** 

Product Type: AR-AFFF / Alcohol-Resistant Aqueous Film Forming

(3x3) % - (6x6) %, AR-FFFP / Alcohol -Resistant Film Forming (3x3) % - (6x6) %, AR-FP/ Alcohol-Resistant

Aqueous Film Forming(3x3) % - (6x6) %

Item No: MED/3.59 Expansion Foam for Fixed Fire Extinguishing

**Systems for Chemical Tankers** 

EC-Type Certificate No: ME-C-0309/B/1/22

Expiry Date of the Certificate: 05.12.2025

MIRTEC S.A. certifies that the above manufacturer operates an approved quality assurance system for production, final inspection and testing of the specific product type.

# Declaration

The manufacturer or the authorized representative is - after examination of the prerequisites - authorized to provide the marine equipment manufactured within the scope of the examination, with the notification number next to the wheel – mark followed by the year in which the mark is affixed, as illustrated below:



0437/XX

This certificate remains valid provided that the Manufacturer's Quality System is subjected to annual surveillance by the Notified Body.



For MIRTEC S.A.

Digitally signed by

Kalliopi Diamanti

Head of Pressure Equipment & Construction Products Sector Mechanical Engineer, PhD, IWE



For the Evaluation Dpt.

Digitally signed by

Kleomenis Papadopoulos

Mechanical Engineer

SKIPION STYLIANOS APOSTOLAKIS Dec 8 2022 12:50 PM

EBETAM A.E.

CERT-med/EN02A (5.5 / 15.4.19)