



**Mapeks**  
www.mapeks.com.tr Fire Extinguisher Systems





  
**Mapeks**  
Mapeks er det beste i Norge



# CORPORATE

## ABOUT US

Having determined its policy as quality and customer satisfaction in recognition of the flaws and gaps of the sector, Mapeks has been established in 1995 to provide service to our customers for the purpose of becoming the most trusted and preferred firm of its sector.

It made a fast entry to the sector when first established with the fire extinguisher powder with ABC dry chemical powder with CE, TSE EN and ISO 9001 certification, and held a significant position.

Starting Fire Extinguisher manufacture in later years, Mapeks initiated common efforts with several foreign companies taking into consideration the high capacity foreign trade and export deficit, thus becoming the face of the sector abroad.

In recognition that quality is a lifestyle, Mapeks agrees that quality understanding in its sector starts from production and ends with depiction by the end-user of his/her satisfaction, and continues to service in this understanding.

## Our Mission

Our Mission is to create trust, quality of service and visual quality to fulfill projects in its full sense on condition of focusing on customer satisfaction.

## Our Vision

It is to become known and reliable at global scale by becoming one of the leader firms of our sector.

## Our Values

- Honesty
- Reliability
- Transparency





## Fire Extinguishers with Dry Chemical Powder

- The body has been made via Metal Spinning method, painted with electrostatic powder covered inside with phosphate.
- The valve components ensuring controlled operation of the device are CE certified.
- Our devices have special hanging apparatus.
- Our devices hold certifications for TSE 862, EN 3-7 A+1, CE and DIN EN ISO 9001:2008.
- Body of A1 7114 Quality Spun Metal Sheet
- Inert gas welding
- Brass Safety Screw Feeder Valve Equipment
- High-Quality Manometer
- Mapeks High quality ABC Extinguisher Powder
- 0.70 Micron Electro Static Powder Paint

Extinguisher Amount	Test Pressure	Operating Pres.	Operating Temperature	Spray Distance	Repellant Matter	Fire Extinguishing Rating
1 Kg ABC	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	5A / 21B / C
2 Kg ABC	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	8A / 34B / C
4 Kg ABC	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	13A / 70B / C
6 Kg ABC	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	21A / 113B / C
9 Kg ABC	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	27A / 144B / C
12 Kg ABC	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	43A / 183B / C



## Fire Extinguishers with FM-200 Gas

- The body has been made via Metal Spinning method, painted with electrostatic powder covered inside with phosphate.
- The valve components ensuring controlled operation of the device are CE certified.
- Our devices have special hanging apparatus.
- Our devices hold certifications for TSE 862, EN 3-7 A+1, CE and DIN EN ISO 9001:2008.
- Body of A1 7114 Quality Spun Metal Sheet
- Inert gas welding
- Brass Safety Screw Feeder Valve Equipment
- High-Quality Manometer
- HCFC 227 00/HCFC 236 fa gas
- 0.70 Micron Electro Static Powder Paint

Extinguisher Amount	Test Pressure	Operating Pres.	Operating Temperature	Spray Distance	Repellant Matter	Fire Extinguishing Rating
1 Kg BC	27 bars	15 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	21B / C
2 Kg BC	27 bars	15 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	34B / C
4 Kg BC	27 bars	15 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	55B / C
6 Kg BC	27 bars	15 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	70B / C



## Foam Fire Extinguishers

- The body has been made via Metal Spinning method, painted with electrostatic powder covered inside with phosphate.
- The inner sides of the body are coated with plastic (epoxy polymer).
- The valve components ensuring controlled operation of the device are CE certified.
- Our devices use high quality foam.
- Our devices hold certifications for TSE B62, EN 3-7 A+1, CE and DIN EN ISO 9001:2008.
- Body of A1 7114 Quality Spun Metal Sheet
- Inert gas welding
- Brass Safety Screw Feeder Valve Equipment
- High-Quality Manometer
- 0.70 Micron Electro Static Powder Paint

Extinguisher Amount	Test Pressure	Operating Pres.	Operating Temperature	Spray Distance	Repellant Mather	Fire Extinguishing Rating
6 Lt AB	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	21A / 113B
9 Lt AB	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	27A / 144B



## Stainless Fire Extinguishers

- The body has been made via stainless steel.
- The valve components ensuring controlled operation of the device are CE certified.
- Our devices use high quality ABC dry chemical powder as active extinguisher.
- Our devices have special hanging apparatus.
- Our devices hold certifications for CE and DIN EN ISO 9001:2008.
- Stainless Steel (Inox)
- Inert gas welding
- Brass Safety Screw Feeder Valve Equipment
- High-Quality Manometer
- 0.70 Micron Electro Static Powder Paint

Extinguisher Amount	Test Pressure	Operating Pres.	Operating Temperature	Spray Distance	Repellant Mather	Fire Extinguishing Rating
1 Kg ABC	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	5A / 21B / C
2 Kg ABC	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	8A / 34B / C
4 Kg ABC	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	13A / 70B / C
6 Kg ABC	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	21A / 113B / C
9 Kg ABC	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	27A / 144B / C
12 Kg ABC	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	43A / 183B / C





## Fire Extinguishers with Carriage Dry Chemical Powder

### 25 KG ABC

- HPR Sheet Body of 3 Parts
- Inert Gas Welding
- Brass Safety Screw Feeder Valve Equipment
- High-Quality Manometer
- Mapeks High Quality ABC Extinguisher Powder
- 0.70 Micron Electro Static Powder Paint

### 50 KG ABC

- HPR Sheet Body of 3 Parts
- Inert Gas Welding
- Brass Safety Screw Feeder Valve Equipment
- High-Quality Manometer
- Mapeks High Quality ABC Extinguisher Powder
- 0.70 Micron Electro Static Powder Paint

Extinguisher Amount	Test Pressure	Operating Pres.	Operating Temperature	Spray Distance	Repellant Matter	Fire Extinguishing Rating
25 Kg ABC	27 bars	18 bars	-30 / +60	5-6 mt	N2 (Nitrogen)	A / B / C
50 Kg ABC	27 bars	18 bars	-30 / +60	5-6 mt	N2 (Nitrogen)	A / B / C



## Foam Fire Extinguishers with Carriage

### 25 Liters AB

- HPR Sheet Body of 3 Parts
- Inert Gas Welding
- Brass Safety Screw Feeder Valve Equipment
- High-Quality Manometer
- Corrosion Resistant Inner Body Coating
- 0.70 Micron Electro Static Powder Paint

### 50 Liters AB

- HPR Sheet Body of 3 Parts
- Inert Gas Welding
- Brass Safety Screw Feeder Valve Equipment
- High-Quality Manometer
- Corrosion Resistant Inner Body Coating
- 0.70 Micron Electro Static Powder Paint

Extinguisher Amount	Test Pressure	Operating Pres.	Operating Temperature	Spray Distance	Repellant Matter	Fire Extinguishing Rating
25 Lt AB	27 bars	18 bars	-30 / +60	5-6 mt	N2 (Nitrogen)	A / B
50 Lt AB	27 bars	18 bars	-30 / +60	5-6 mt	N2 (Nitrogen)	A / B



## Fire Extinguishers with Ceiling Hangers

- The body has been made via Metal Spinning method, painted with electrostatic powder covered inside with phosphate.
- The valve components ensuring controlled operation of the device are CE certified.
- Our devices have special hanging equipment.
- Our devices hold certifications for TSE 862, EN 3-7 A+1, CE and DIN EN ISO 9001 :2008.
- Body of A1 7114 Quality Spun Metal Sheet
- Inert gas welding
- Brass Safety Screw Feeder Valve Equipment
- High-Quality Manometer
- Mapeks High Quality ABC Extinguisher Powder
- 0.70 Micron Electro Static Powder Paint

Extinguisher Amount	Test Pressure	Operating Pres.	Operating Temperature	Spray Distance	Repellant Matter	Fire Extinguishing Rating
4 Kg ABC	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	13A / 70B / C
6 Kg ABC	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	21A / 113B / C
12 Kg ABC	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	27A / 144B / C



## Fire Extinguishers with FM-200 Gas Ceiling Hanger

- The body has been made via Metal Spinning method, painted with electrostatic powder covered inside with phosphate.
- The valve components ensuring controlled operation of the device are CE certified.
- Our devices have special hanging equipment.
- Our devices hold certifications for TSE 862, EN 3-7 A+1, CE and DIN EN ISO 9001 :2008.
- Body of A1 7114 Quality Spun Metal Sheet
- Inert gas welding
- Brass Safety Screw Feeder Valve Equipment
- High-Quality Manometer
- HCFC 227 ea / HCFC 236 fa gas
- 0.70 Micron Electro Static Powder Paint

Extinguisher Amount	Test Pressure	Operating Pres.	Operating Temperature	Spray Distance	Repellant Matter	Fire Extinguishing Rating
4 kg FM-200	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	55B / C
6 kg FM-200	27 bars	18 bars	-30 / +60	4-5 mt	N2 (Nitrogen)	70B / C

# Carbon Dioxide (CO<sub>2</sub>) Fire Extinguishers



- The body has been made via Metal Spinning method, painted with electrostatic powder covered inside with phosphate.
- The valve components ensuring controlled operation of the device are CE certified.
- Our devices have special hanging equipment.
- Our devices hold certifications for TSE 862, EN 3-7 A+1, CE and DIN EN ISO 9001:2008.
- At European standards
- Material 34CrMo4
- Brass Safety Screw Feeder Valve Equipment
- 99,9% pure carbon dioxide
- 0.70 Micron Electro Static Powder Paint

Extinguisher Amount	Test Pressure	Operating Pres.	Operating Temperature	Spray Distance	Fire Extinguishing Rating
5 Kg CO2	250 bars	174 bars	-30 / +60	4-5 mt	55B / C - 70B / C
5 Kg CO2	315 bars	216 bars	-30 / +60	4-5 mt	55B / C - 70B / C





# Barcode System

## Firm-Specific Barcode System

Allowing follow-up from a single point of several fire extinguisher and fire-retarding products and ensuring the control of all products by one item is very easy thanks to the system we developed as MAPEKS. Thanks to the Barcode sensitive to the environment, protected from all environmental factors, and integrated to every product, you will be able to follow the final condition of all of your products over the system to be notified to you.

Furthermore, in case of a demand from the firm, the firm itself shall be able to convey to the system its weekly or monthly control to the system thanks to the hand terminals it may procure itself.

## How the Barcode System Works:

Every product produced and stored in our factory (Tube, accessories etc.) has a unique barcode number. Any product quitting the factory is integrated to the systems, and its point of sale and location are registered.

As the periodic control time of each product registered in our software system is notified to us, it is checked by the controller personnel appointed by our firm and registered to the system via hand terminals.

For each Fire Extinguisher bought within a multiple order and used in big spaces, an identity designation is made to clarify the location of all devices on the system.

Thanks to the remote access interface provided free of charge by Mapeks to its customers, there is the possibility to view the semiannual condition of the device for maintenance by us.

However, establishments where check-ups are more often will be able to register, if they consider necessary, to the system weekly or monthly controls by their own control or safety units having obtained a hand terminal themselves.

We also wish to provide to you such service started by us to finally follow for fire extinguishers in our country and to eliminate negligence, believing it will be useful for every entity and individual.





## Mikromax®

Mikromax® Sensitive Hose System is a very simple system consisting of a fire extinguisher body with extinguishing substance inside and a detection hose.

- Stainless Steel (hox)
- Stainless Welding
- Brass Safety Screw Feeder Special Valve Equipment
- High Quality Monometer

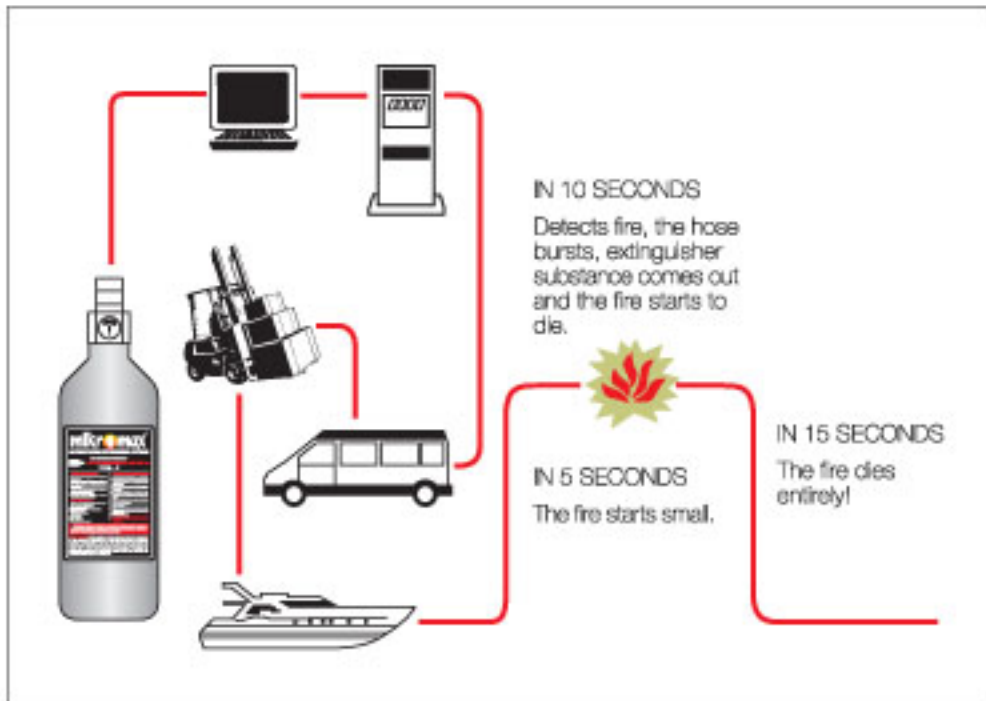
Amount of Extinguisher : 2 / 4 / 6 / 9 Kg  
 Extinguisher Substance : HCFC 227 ea Gas  
 Test Basıncı : 27 bars  
 Çalışma Pressure : 18 bars  
 Spray Distance (Maximum) : 4-5 mt  
 Repellant Substance : N2 (Nitrogen Gas)

Detection hose has been pressurized with nitrogen gas as far as its end point, and bursts from the point it detects the flame, and acting as a nozzle, discharges the extinguisher substance within the fire extinguisher body onto the point of start of the fire. Since it activates with early detection from a very little flame, it minimizes the level of damage to be caused by fire.

Mikromax® Sensitive Hose System is used in general for electricity, inside electricity boards, at data system rooms, cabling under raised floors, engine rooms of yachts, UPS rooms, switchboard panels, automobile engines, motor sections of armored vehicles, heavy equipment etc.

### How It Works :

- 1) Mikromax® sensitive hose automatic fire extinguisher device is mounted at some point.
- 2) Its hose pressurized with nitrogen gas as far as its end point is placed in a way to pass through points with fire hazard.
- 3) Sensitive hose of Mikromax® bursts from the point of detection of fire, and the extinguisher substance within the device discharges from that point to extinguish the fire.







## Chimney Hood Extinguisher Systems

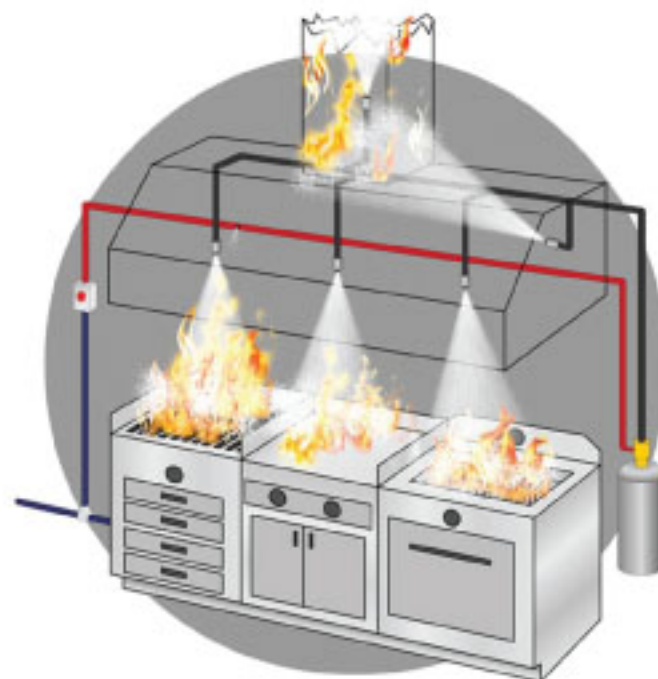
1. Chromium Stainless Cylinder
2. Stainless piping and connection equipment
3. pH 8,5 SM potassium extinguishing substance
4. Fusible detector system
5. Steel tie wiring system
6. Manual Operating Station
7. Special Operating mechanism and valve
8. Wall junction equipment
9. Special warning, caution and maintenance labels
10. Compliance with NFPA 17A.

It is very hard to extinguish the chimney hood fires arising from ignition for any reason of the accumulated oils inside, if used for a long time without cleaning.

Even in environments with the most technological kitchen systems, side oils and high temperature cause fire hazards. Chimney hood extinguisher system is the easiest and most effective solution to the fires to start in chimney hoods.

Chimney hood extinguisher systems are automatically activated thanks to chimney hood detectors, and through interference in the chimney hoods, filters, furnaces, chimneys, deep fryers and grills as soon as possible, any possible hazard will be taken under control.

The chimney hood fire extinguisher systems constitute the most significant and effective extinguisher system necessary to be used for fire safety in the kitchens of hotels, cafes, restaurants, factories etc. enterprise kitchens.



## Regulation on Fire Protection of Buildings

09.09.2009 / 27344 Article 57-(1)

It is imperative to have and to mount automatic fire extinguisher systems as well as gas detection, gas cutting and warning installations to the chimney hoods of kitchens except houses in shopping centers and high buildings, food factories and kitchens serving more than 100 people at once.

# Dry Chemical Powders



Active Substance: Ammonium-Phosphate

Ammonium Phosphate Ratio (Approximate %): 40% / 52% / 60% / 78% / 85% / 90%

Standard Color: Lemon

Visible Intensity (According to DIN Norms) g/100 ml: 87 ±5

Grain Size Fluidity g/sec: 70-90

Resistance to Temperature °C: -60/+85

Hydrophobic Treatment: Siclon

Packaging: polyethylen bag within 25 kg 3 fold craft bag / 1000 kg Bigbag

**Safety Declaration:** No poisonous remnant forms in the course of operation of MAPEKS fire extinguisher powders or fire fighting.

**Guarantee:** All MAPEKS powders shall remain effective for at least 5 years provided kept enclosed in compliance with rules.

**Storage:** It shall not be kept under heavy weight in a way to remain in contact with weather.

Dry chemical systems break the chemical reaction chain formed in the course of a fire and stops ignition, and furthermore forms a layer on the burning substance and cuts the contact of the flames with air. Dry chemical emptied to the entire volume using the volume protection method forms an atmosphere in which burning cannot continue. In fires of liquids preserved via partial protection method, it forms a soap-like layer on the surface through interaction with the flammable liquid, and prevents flaming of the liquid. Such layer formed on the flammable media also ensures cooling of the surfaces.

In case of a fire, the mechanical or electrical pulse discharge mechanism penetrates the membrane on the mouth of the repellent gas cartridge, causing filling of the gas into the triggering line, and opening of the valves of the tubes with dry chemicals by the pneumatic triggers as a result of the gas pressure. The tubes store dry chemical pressurized with nitrogen gas. Upon opening of the valve, pressurized dry chemical is discharged from the sprayers having filled the discharge line.

The system may activate automatically, pneumatically and/or manually.

Upon activation of the system, stopping of the fans depending on their accessories, prevention of electricity current to devices or the environment, closing of various input/outputs, shutdown of gas inlets, visual and audio alarm etc. may occur.



Taking into consideration the damage of other extinguisher system on the nature, human being and equipment, matters to be heeded in relation with the use of such systems with quite low damaging effects are as follows:

- \* No mixture should be made with different type chemicals against the risk of forming chemical compounds that might damage the system.
- \* The dry chemical itself does not cause rusting, but when it is used in highly humid environments, it may create a rusting effect unless it is cleaned shortly.
- \* Unless cleaned in a short time, it may have abrasive effect on sensitive surfaces.
- \* Dry chemical systems are not effective in extinguishing chemicals with free oxygen radicals content (for example cellulose nitrate).
- \* It is not an effective method in metal fires (for example Potassium, Titanium, Zirconium etc.).
- \* Where deep sealed fire of ordinary flammables may continue, dry chemical may not be effective because it stays on the surface.
- \* Dry chemical may not be a proper extinguisher for protection of devices with electricity switches that might be affected by the powder.





# Synthetic Foams

Fire Class: A-B-C

Color: Light Brown

Main Substances: Oil Alcohol Sulphates

Intensity:  $1.060 \pm 0.005$

pH Values: 8.0 - 8.0

Viscosity Kinematics mm<sup>2</sup>/Sec: 0 \* Max. 30 - 0 \* Max. 60

Foam Type: Heavy, Middle, Light

Foaming Index: A-B-C

For Heavy Foam: 10-25

For Middle Foam: 25-100

For Light Foam: 100-500

Flow Point: -15

Sedimentation: 0.05

Stability (Drainage): 20



Fire foams are divided into three classes according to their dilution ratios.

Low Dilution Foams: up to 20:1

Middle Dilution Foams: between 20:1 to 200:1

High Dilution Foams: higher than 200:1

## Foam Concentration Types

Protein Based Foam Concentration (P)

Flouroprotein Based Foam Concentration (FP)

Flouroprotein Based Foam Concentration resistant to Alcohols and Solvents (FP-AR)

Flouroprotein Based Foam Concentration making Film with Water (FFFF)

Synthetic Based Foam Concentration making Film with Water (AFFF)



## Fire Closets

- Closet frame has been reinforced with resistance increasing pressure forms.
- Warning signs are phosphorous in glass cover models.
- Cover locks are made of metal material coated with chromium and can be easily opened and closed (Built-in Type)
- Closet lids are built-in to the surface and open 180 degrees.
- The closet paint phosphate treatment and 0.70 micron electrostatic powder paint have been made.
- The arm ensuring connection of the roll to the closet frame has been manufactured and shaped with 6 mm thick laser shear.
- The roll to which the hose has been wrapped has been shaped in a pressing machine to make it resistant to pressure.
- Waterways in the roll system are of brass material.
- Water inlet hose connection to the roll rotates 360 degrees around its own axis preventing bending and fractures.
- The roll movement is 90-180 degrees for the purpose of allowing pushing of the hose at every direction, and it can easily rotate around its own axis when pulled outward.
- The nozzle at the tip of the hose has 3 positioned brass core, and can be easily opened and closed.
- Our underplaster models are disassembly frame with radius.
- The hose used in the roll is of 25 mm diameter in compliance with TS EN 694 standard.
- Our fire closets demonstrate an aesthetic view with their unique design.







## Fire Closet

- Max Temperature: 550 °C - 1260 °C
- Non-flammable
- Designed for protection against fire,
- Suitable for use in houses, work places, factories and vehicles,
- Environment and user friendly
- Contains no asbestos - rockwool
- No harm on human health
- Heat insulation
- Provides superior protection against high temperature
- In cases of emergency, can be used in carrying wounded people like stretcher





CE-1-12 KG



CE-50 KG



Post-Service  
Competence Certificate



ISO-Unicert-ING







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