

SAFETY EQUIPMENT



INTRODUCTION OF NK GROUP OF COMPANIES

NK Co., Ltd., based in Busan, South Korea, is a specialist developer and manufacturer of :

- Shipboard fire control systems
- Shipboard ballast water treatment systems
- High pressure gas cylinders
- Natural gas vehicle(NGV) cylinders, and
- Environment protection technologies

NK is also branching IMO new products and markets including green energy.

Ever since its foundation in 1980, inaugurated as Nam Yang Industry Co. Ltd as a manufacturer of high pressure gas cylinders, and marine fire protection systems, NK has achieved expertise and experience in the worldwide market, with a favorable reputation for excellence and customer support NK is the Korean market leader and has expanded marketing and production capacities through a group of companies in Korea and overseas, focusing on high-end, highvalue-added products and knowledge-led business hybrids for environment friendly systems.

NK Group of Companies is fully committed to single source and responsible vendor, meeting the needs of customers with supply of full design, components, documentations, installation, test, ommissioning, regulatory approvals and training on a turnkey basis, as well as customer support with operation, maintenance, re-test and recharge services for installed systems.

NK is pursuing a new corporate vision through 2010, with a new paradigm of next generation business; valued by customers for its brand and services in the energy and environment portfolio ; NK's concerted Research & Development program along with continued investment over the last decade has generated business incubation and strategic partnerships with advanced foreign companies to spur the business.

The NK Group of Companies includes ENK Co.Ltd, NK TECH and GESKO in South Korea and NK Shanghai in China.



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PART 1

Firefighter Equipment

Fire Fighting Equipment must be effectively prepared in compliance with SOLAS Regulations.

(Ref.: SOLAS 2004 Chapter II-2 - Fire protection, fire detection and fire extinction, FSS Code)

NK is a total specialist in the area of marine safety equipment, and can supply you with the safety equipment you need to meet all of the relevant rules and regulations.

This chapter provides detailed information on NK fire fighting equipment.



Fire Fighting Suit / aluminized light duty

Order No. 130N1015ME

consisting of following items:

- jacket-aluminized
- trousers-aluminized
- protective gloves-leather
- boots-rubber
- helmet-fibre glass
- single **standard size**

Approval: MED 



Fire Fighting Suit / NOMEX

Order No. 130N1024ME

consisting of following items:

- jacket-NOMEX
- trousers-NOMEX
- protective gloves-leather
- boots-rubber
- helmet-fibre glass
- single **standard size**

Approval: MED 



Fire Fighting Suit / aluminized light duty

Order No. 130N1017ME

consisting of following items:

- jacket-aluminized
- trousers-aluminized
- protective gloves-leather
- boots-rubber
- helmet-fibre glass
- single **standard size**

Approval: MED 



Fire Fighting Suit / heavy duty

Order No. 130N1011SB

consisting of following items:

- jacket with hood-aluminized
- helmet detachable
- trousers-aluminized
- gloves-aluminized
- boots-heat protectivr
- single **standard size**

Approval: MED 



Breathing Apparatus

Order No. 130N0007

basic device consisting of:

- composite backplate
- standard carrying harness
- cylinder strap with cam lock
- pressure reducer
- push in Plus lung demand valve
- pressure gauge with warning whistle
- full face mask Panorama Nova Standard P

Approval: MED 



Compressed Air Cylinder / filled

Order No. 130N0400M

- 6 l / 200 bar
- material: steel



Compressed Air Cylinder / filled

Order No. 130N0407

- 6 l / 300 bar
- material: steel



Compressed Air Cylinder / filled

Order No. 130N0022

- 6.8 l / 300 bar
- material: carbon composite



Breathing Apparatus

Order No. 130N0031

- composite backplate
- standard carrying harness
- cylinder strap with cam lock
- pressure reducer
- pressure gauge with warning whistle
- air cylinder volume: 5ℓ
- air storage capacity: 1500ℓ
- normal working pressure: 300bar
- weight: 12kg

Ref.-Spare cylinder Order No. 130N00311

Approval: MED 



Breathing Apparatus

Order No. 130N0032

- composite backplate
- standard carrying harness
- cylinder strap with cam lock
- pressure reducer
- pressure gauge with warning whistle
- air cylinder volume: 6ℓ
- air storage capacity: 1800ℓ
- normal working pressure: 300bar
- weight: 14kg

Ref.-Spare cylinder Order No. 130N00321

Approval: MED 



Breathing Apparatus

Order No. 130N0033

- composite backplate
- standard carrying harness
- cylinder strap with cam lock
- pressure reducer
- pressure gauge with warning whistle
- air cylinder volume: 6.8ℓ
- air storage capacity: 2040ℓ
- normal working pressure: 300bar
- weight: 10kg

Ref.-Spare cylinder Order No. 130N00331

Approval: MED 



Fire Safety Line

Length	Order No.
40 m	130N0600
45 m	130N0607
50 m	130N0601
60 m	130N0604

- snap hook with signal plate
- material: steel core with manila rope

Approval: MED 



Fire Axe

Order No. 130N3003SB

- insulated
- length: 32 cm

Approval: SBG



Fire Axe Belt & Pouch

Order No. 130N3001/2

- insulated
- material: leather



Safety Lamp

Order No. 130N2000UK-P

- intrinsically safe T6
- protection category IP67
- incl. 2 batteries 1.5V with spare bulb
-
-



Safety Lamp HE8 EURO PLUS with Charger

Order No. 130N2010SB-P

Safety lamp

- intrinsically safe T4
- protection category IP65
- halogen light hand-held
- for use in zones 1 and 2
- incl. 3 Ni-Cd rechargeable batteries 3.6V/4Ah

Plug-in charger for HE 8 EURO PLUS

- 230 Volt +/- 10%
- 50 / 60 Hz
- protection category: IP20
- recharge period: max. 14 hrs



Breathing Air Compressor

Working Pressure	Order No.
225 bar	132N0908MK
330 bar	132N0905MK
225&330 bar(dual)	132N0916MK
150&225 bar(dual)	132N0919MK

- delivery: 100 ℓ/min
- filter system: TRIPLEX® P21
- drive power: 2.2kW(3PS)
- weight: 46kg
- DIN connection
- dimension(L×W×H): 66cm×36cm×42cm
- operating voltage: 440V, 60Hz

※ Please indicate the required voltage and frequency.



Breathing Air Compressor

Working Pressure	Order No.
150 bar	220N1009MK
225 bar	220N10091MK
330 bar	220N10092MK
150&225 bar(dual)	220N1010MK
225&330 bar(dual)	220N10101MK
150&330 bar(dual)	220N10102MK

- delivery: 90 ℓ/min
- drive power: 2.2kW(3PS)
- weight: 65kg
- dimension(L×W×H): 80cm×38cm×55cm
- operating voltage: 440V, 60Hz

※ Please indicate the required voltage and frequency.



Firefighter's Outfit Box

Order No. 123N4101

- 1 full set of Firefighter's outfit
- basic material: wood
- dimension: 94cm x 45cm x 75cm
- weight: 20kg
- handle, door catch, hinges material: Stainless steel



Firefighter's Outfit Box

Order No. 123N4602

- 1 full set of Firefighter's outfit
- basic material: steel
- dimension: 94cm x 45cm x 75cm
- handle, door catch, hinges material: Stainless steel



Firefighter's Outfit Box

Order No. 123N4110

- 1 full set of Firefighter's outfit
- basic material: FRP
- dimension: 120cm x 58cm x 76cm on top
- weight: 37kg
- handle, door catch, hinges material: Stainless steel

PART 2

Fire Extinguisher

Fire Fighting Equipment must be effectively prepared in compliance with SOLAS Regulations. (Ref.: SOLAS 2004 Chapter II-2 - Fire protection, fire detection and fire extinction, FSS Code)

Different fire extinguishing agents need to be applied for different fire types. This chapter provides detailed information about the diverse types of fire extinguisher specifications applied for different fire types.



Powder Extinguisher / 6kg

Order No. 111N5003ME

- fire classification: A, B, C, +Electrical
- extinguishing agent: ABC powder
- cartridge operated type

Approval: MED 



Bracket

Order No. 315N0149

- for powder extinguisher 6kg
-



CO₂ Cartridge

Order No. 111N8504

- for powder extinguisher 6kg, spare
-



ABC Powder

Order No. 262N2000


- for powder extinguisher 6kg, spare
-



Powder Extinguisher / 9kg

Order No. 111N5301ME

- fire classification: A, B, C, +Electrical
- extinguishing agent: ABC powder
- cartridge operated type

Approval: MED 



Bracket

Order No. 315N0147

- for powder extinguisher 9kg
-



CO₂ Cartridge

Order No. 111N8508

- for powder extinguisher 9kg, spare
-



ABC Powder

Order No. 262N0001


- for powder extinguisher 9kg, spare
-



Powder Extinguisher 12kg

Order No. 111N5501ME

- fire classification: A, B, C, +Electrical
- extinguishing agent: ABC powder
- cartridge operated type

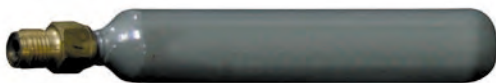
Approval: MED 



Bracket

Order No. 315N0147

- for powder extinguisher 12kg
-



CO₂ Cartridge

Order No. 111N8509

- for powder extinguisher 6kg, spare
-



ABC Powder

Order No. 262N0002

- for powder extinguisher 6kg, spare
-



Foam Extinguisher / 9ℓ

Order No. 112N1004ME

- fire classification: A, B
- extinguishing agent: AFFF Foam
- cartridge operated type

Approval: MED 



Bracket

Order No. 315N0147

- for fat fire extinguisher 9ℓ



AFFF Foam Liquid

Order No. 261N0102

- for foam fire extinguisher 9ℓ, spare



CO₂ Cartridge

Order No. 112N8001

- for foam fire extinguisher 9ℓ, spare



Fat Fire Extinguisher / 6ℓ

Order No. 110N6502ME

- fire classification: A, F
- extinguishing agent: Neufrol M
- cartridge operated type

Approval: MED



Bracket

Order No. 315N0149

- for fat fire extinguisher 6ℓ



Neufrol M

Order No. 262N2013

- for fat fire extinguisher 6ℓ, spare



CO₂ Cartridge

Order No. 111N8519

- for fat fire extinguisher 6ℓ, spare



Fat Fire Extinguisher / 9ℓ

Order No. 110N6503ME

- fire classification: A, F
- extinguishing agent: Neufrol M
- cartridge operated type

Approval: MED



Bracket

Order No. 315N0147

- for fat fire extinguisher 9ℓ



Neufrol M

Order No. 262N2014

- for fat fire extinguisher 9ℓ, spare



CO₂ Cartridge

Order No. 111N8521

- for fat fire extinguisher 9ℓ, spare



CO2 Fire Extinguisher / 5kg

Order No. 110N5111ME

- fire classification: B, C, +Electrical
- extinguishing agent: carbon dioxide
- stored pressure type

Approval: MED 



Bracket

Order No. 315N0147

- for CO₂ fire extinguisher 5kg



CO₂ Fire Extinguisher / 6.8kg

Order No. 110N5001KG-P

- fire classification: B, C, +Electrical
- extinguishing agent: carbon dioxide
- stored pressure type

Approval: KG



Bracket

Order No. 315N0147

- for CO₂ fire extinguisher 6.8kg



Powder Extinguisher / 25kg

Order No. 111N6008ME

- fire classification: A, B, C
- extinguishing agent: ABC powder
- stored pressure type
- incl. ABC powder

Approval: MED 



Powder Extinguisher / 25kg

Order No. 111N6009ME

- fire classification: A, B, C
- extinguishing agent: ABC powder
- incl. CO₂ cartridge
- cartridge operated type

Approval: MED 



Powder Extinguisher / 50kg

Order No. 111N6108ME

- fire classification: A, B, C
- extinguishing agent: ABC powder
- incl. CO₂ cartridge
- cartridge operated type

Approval: MED 



Foam Extinguisher / 45^l

Order No. 112N3002ME-P

- fire classification: A, B
- extinguishing agent: AFFF Foam
- cartridge operated type
- incl. AFFF foam liquid
- incl. CO₂ cartridge

Approval: MED



Foam Extinguisher / 50^l

Order No. 112N3008ME-P

- fire classification: A, B
- extinguishing agent: AFFF Foam
- cartridge operated type
- incl. AFFF foam liquid
- incl. CO₂ cartridge

Approval: MED





Foam Extinguisher / 135^l

Order No. 112N3003ME-P

- fire classification: A, B
- extinguishing agent: AFFF Foam
- cartridge operated type
- incl. AFFF foam liquid
- incl. CO₂ cartridge

Approval: MED 



Foam Extinguisher / 150^l

Order No. 112N3009ME-P

- fire classification: A, B
- extinguishing agent: AFFF Foam
- cartridge operated type
- incl. AFFF foam liquid
- incl. CO₂ cartridge

Approval: MED 



CO2 Fire Extinguisher / 20kg

Order No. 111N6115ME

- fire classification: B
- extinguishing agent: carbon dioxide
- stored pressure type

Approval: MED 

PART 3

Sea Water Fire Fighting Equipment

Fire Fighting Equipment that uses a water supply system must follow certain specifications in terms of size and type according to its usage. This chapter provides the technical details on each piece of equipment for various applications.



Fire Hose

- 100 % high tenacity polyester yarn
- circular-woven twill weave, warp threads multiple twisted
- high-quality, very light synthetic rubber on the basis of EPDM
- PU-coating on request-red fire hose

Approval: MED



FIRE HOSE WITH COUPLING- STORZ type(Germany)

Color	Length	Ø	Coupling	Material	Order No.
red	15m	2"	Storz-C	brass	116N121115ME
red	18m	2"	Storz-C	brass	116N121118ME
red	20m	2"	Storz-C	brass	116N121120ME
red	25m	2"	Storz-C	brass	116N121125ME
white	15m	2"	Storz-C	brass	116N221115ME
white	18m	2"	Storz-C	brass	116N221118ME
white	20m	2"	Storz-C	brass	116N221120ME
white	25m	2"	Storz-C	brass	116N221125ME
red	15m	2.5"	Storz 65A	brass	116N131215ME
red	18m	2.5"	Storz 65A	brass	116N131218ME
red	20m	2.5"	Storz 65A	brass	116N131220ME
red	25m	2.5"	Storz 65A	brass	116N131225ME
white	15m	2.5"	Storz 65A	brass	116N231215ME
white	18m	2.5"	Storz 65A	brass	116N231218ME
white	20m	2.5"	Storz 65A	brass	116N231220ME
white	25m	2.5"	Storz 65A	brass	116N231225ME
red	15m	2.5"	Storz-B	brass	116N131315ME
red	18m	2.5"	Storz-B	brass	116N131318ME
red	20m	2.5"	Storz-B	brass	116N131320ME
red	25m	2.5"	Storz-B	brass	116N131325ME
white	15m	2.5"	Storz-B	brass	116N231315ME
white	18m	2.5"	Storz-B	brass	116N231318ME
white	20m	2.5"	Storz-B	brass	116N231320ME
white	25m	2.5"	Storz-B	brass	116N231325ME

FIRE HOSE WITH COUPLING- NAKAJIMA type(Japan)

Color	Length	Ø	Coupling	Material	Order No.
red	15m	1.5"	JIS 40A	brass	116N112115ME
red	18m	1.5"	JIS 40A	brass	116N112118ME
red	20m	1.5"	JIS 40A	brass	116N112120ME
red	25m	1.5"	JIS 40A	brass	116N112125ME
white	15m	1.5"	JIS 40A	brass	116N212115ME
white	18m	1.5"	JIS 40A	brass	116N212118ME
white	20m	1.5"	JIS 40A	brass	116N212120ME
white	25m	1.5"	JIS 40A	brass	116N212125ME
red	15m	2"	JIS 50A	brass	116N122215ME
red	18m	2"	JIS 50A	brass	116N122218ME
red	20m	2"	JIS 50A	brass	116N122220ME
red	25m	2"	JIS 50A	brass	116N122225ME
white	15m	2"	JIS 50A	brass	116N222215ME
white	18m	2"	JIS 50A	brass	116N222218ME
white	20m	2"	JIS 50A	brass	116N222220ME
white	25m	2"	JIS 50A	brass	116N222225ME
red	15m	2.5"	JIS 65A	brass	116N132315ME
red	18m	2.5"	JIS 65A	brass	116N132318ME
red	20m	2.5"	JIS 65A	brass	116N132320ME
red	25m	2.5"	JIS 65A	brass	116N132325ME
white	15m	2.5"	JIS 65A	brass	116N232315ME
white	18m	2.5"	JIS 65A	brass	116N232318ME
white	20m	2.5"	JIS 65A	brass	116N232320ME
white	25m	2.5"	JIS 65A	brass	116N232325ME

FIRE HOSE WITH COUPLING- JOHN MORRIS type(U.K)

Color	Length	Ø	Coupling	Material	Order No.
red	15m	2.5"	BS 65A	brass	116N133115ME
red	18m	2.5"	BS 65A	brass	116N133118ME
red	20m	2.5"	BS 65A	brass	116N133120ME
red	25m	2.5"	BS 65A	brass	116N133125ME
white	15m	2.5"	BS 65A	brass	116N233115ME
white	18m	2.5"	BS 65A	brass	116N233118ME
white	20m	2.5"	BS 65A	brass	116N233120ME
white	25m	2.5"	BS 65A	brass	116N233125ME

NOTE: Items pictured may differ from actual product.

FIRE HOSE WITH COUPLING- ANSI type(U.S.A)

Color	Length	Ø	Coupling	Material	Order No.
red	15m	1.5"	ANSI 40	brass	116N114115ME
red	18m	1.5"	ANSI 40	brass	116N114118ME
red	20m	1.5"	ANSI 40	brass	116N114120ME
red	25m	1.5"	ANSI 40	brass	116N114125ME
white	15m	1.5"	ANSI 40	brass	116N214115ME
white	18m	1.5"	ANSI 40	brass	116N214118ME
white	20m	1.5"	ANSI 40	brass	116N214120ME
white	25m	1.5"	ANSI 40	brass	116N214125ME
red	15m	2.5"	ANSI 65	brass	116N134215ME
red	18m	2.5"	ANSI 65	brass	116N134218ME
red	20m	2.5"	ANSI 65	brass	116N134220ME
red	25m	2.5"	ANSI 65	brass	116N134225ME
white	15m	2.5"	ANSI 65	brass	116N234215ME
white	18m	2.5"	ANSI 65	brass	116N234218ME
white	20m	2.5"	ANSI 65	brass	116N234220ME
white	25m	2.5"	ANSI 65	brass	116N234225ME

FIRE HOSE WITH COUPLING- NOR type(Norway)

Color	Length	Ø	Coupling	Material	Order No.
red	15m	2"	NOR 50A	brass	116N125115ME
red	18m	2"	NOR 50A	brass	116N125118ME
red	20m	2"	NOR 50A	brass	116N125120ME
red	25m	2"	NOR 50A	brass	116N125125ME
white	15m	2"	NOR 50A	brass	116N225115ME
white	18m	2"	NOR 50A	brass	116N225118ME
white	20m	2"	NOR 50A	brass	116N225120ME
white	25m	2"	NOR 50A	brass	116N225125ME
red	15m	2.5"	NOR 65A	brass	116N135215ME
red	18m	2.5"	NOR 65A	brass	116N135218ME
red	20m	2.5"	NOR 65A	brass	116N135220ME
red	25m	2.5"	NOR 65A	brass	116N135225ME
white	15m	2.5"	NOR 65A	brass	116N235215ME
white	18m	2.5"	NOR 65A	brass	116N235218ME
white	20m	2.5"	NOR 65A	brass	116N235220ME
white	25m	2.5"	NOR 65A	brass	116N235225ME

FIRE HOSE WITH COUPLING- SIS type(Swedish)

Color	Length	Ø	Coupling	Material	Order No.
red	15m	1.5"	SIS 40A	brass	116N116115ME
red	18m	1.5"	SIS 40A	brass	116N116118ME
red	20m	1.5"	SIS 40A	brass	116N116120ME
red	25m	1.5"	SIS 40A	brass	116N116125ME
white	15m	1.5"	SIS 40A	brass	116N216115ME
white	18m	1.5"	SIS 40A	brass	116N216118ME
white	20m	1.5"	SIS 40A	brass	116N216120ME
white	25m	1.5"	SIS 40A	brass	116N216125ME

Jet / Spray Nozzle

Approval: MED



Coupling		Nozzle Tip	Order No.
Type & Size	Material		
JIS 65A	brass	12mm	116N1101ME-P
JIS 65A	brass	16mm	116N1102ME-P
JIS 65A	brass	19mm	116N1103ME-P
JIS 50A	brass	12mm	116N1110ME-P
JIS 50A	brass	16mm	116N1111ME-P
JIS 50A	brass	19mm	116N1112ME-P
JIS 40A	brass	12mm	116N1120ME-P
JIS 40A	brass	16mm	116N1121ME-P
JIS 40A	brass	19mm	116N1122ME-P
ANSI 65A	brass	12mm	116N1201ME-P
ANSI 65A	brass	16mm	116N1202ME-P
ANSI 65A	brass	19mm	116N1203ME-P
ANSI 40A	brass	12mm	116N1220ME-P
ANSI 40A	brass	16mm	116N1221ME-P
ANSI 40A	brass	19mm	116N1222ME-P
STORZ-B	brass	12mm	116N1301ME-P
STORZ-B	brass	16mm	116N1302ME-P
STORZ-B	brass	19mm	116N1303ME-P
STORZ-C	brass	12mm	116N1310ME-M
STORZ-C	brass	16mm	116N1311ME-P
STORZ-C	brass	19mm	116N1312ME-M
BS 336	brass	12mm	116N1601ME-P
BS 336	brass	16mm	116N1602ME-P
BS 336	brass	19mm	116N1603ME-P
NOR 65A	brass	12mm	116N1401ME-M
NOR 65A	brass	16mm	116N1402ME-M
NOR 65A	brass	19mm	116N1403ME-M

NOTE: Items pictured may differ from actual product.



Coupling Spanner / Storz type

Order No. 116N6301

- material: SS400
- finish: galvanized



Coupling Spanner / Jls / Nakajima type

Size	Order No.
40A	116N6105
50A	116N6103
65A	11606101

- material: SS400
- finish: galvanized



Coupling Spanner / ANSI type

Order No. 116N6201

- material: SS400
- finish: galvanized



Coupling Spanner / SIS type

Order No. 116N6120

- material: SS400
- finish: galvanized
- size: SIS 40A



Fire Hose Box

Fire Hose Box / standard

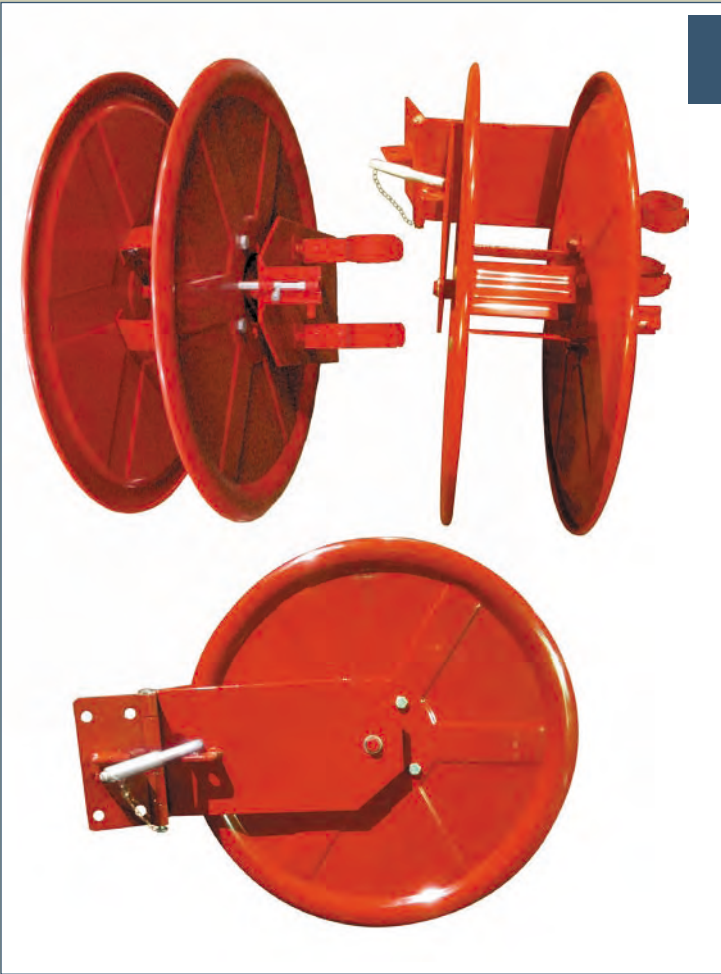
Type	Order No.
left hinge	115N80031
right hinge	115N80001

- material: GRP
- color: red
- incl. eye-plate with bolt/nut/washer
- incl. hose, nozzle, spanner bracket
- dims.: W46×H56×D19 cm

Fire Hose Box / special type

Type	Order No.
left hinge	115N8010
right hinge	115N8011

- material: steel reinforced FRP
- color: red
- incl. eye-plate with bolt/nut/washer
- incl. hose, nozzle, spanner bracket
- dims.: W58×H56×D25 cm



Fire Hose Reel

Order No. 312N0001

- material: steel
- color: red
- hose size: max. 25m / ø65

Portable Foam Applicator Assembly

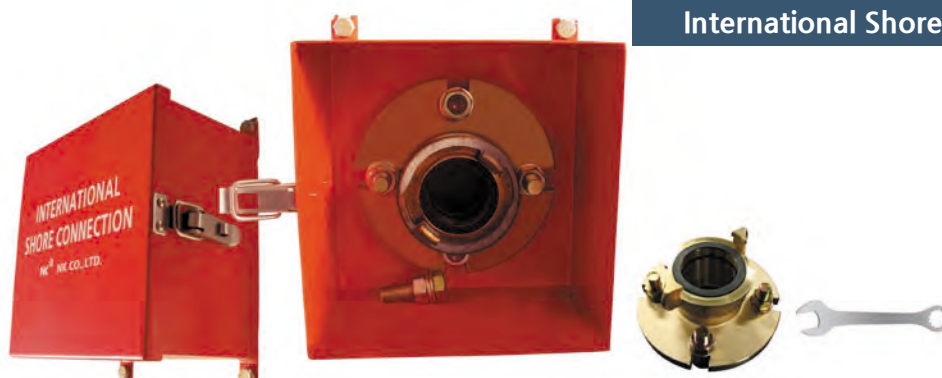


- incl. branch pipe with suction hose
- incl. foam concentrate 20ltr with 1 spare
- incl. steel storage box

Approval: KG

Coupling	Order No.
JIS 40A	115N1013-M
JIS 50A	115N1014-M
JIS 65A	115N1015-M
ANSI 40A	115N1021-M
ANSI 65A	115N1023-M
STORZ-C	115N1028-M
STORZ-B	115N1029-M
BS 336	115N1037-M

International Shore Connection Assembly



- incl. international shore connection
- incl. spanner
- incl. steel storage box

Approval: KG

Coupling	Order No.
JIS	116N4100-P
ANSI	116N4200-P
STORZ	116N4300-P
BS 336	116N4600-p

Water Fog Applicator Assembly



- length: 2m
- pipe: STPG 370, galvanized
- incl. pipe clip

Coupling	Order No.
JIS 40A	116N5102
JIS 50A	116N5101
JIS 65A	116N5100
ANSI 40A	116N5202
ANSI 65A	116N5200
STORZ-C	116N5301
STORZ-B	116N5300
BS 336	116N5600

PART 4

Helicopter Emergency Equipment

Helicopters are frequently used for providing medical assistance, for bringing in emergency workers and pilots, for damage control and recovery, and for evacuations when there has been an accident at sea. For this reason, it is critical that ships be able to accommodate such missions. One key requirement is to have an area where a helicopter can land safely.

It is true that most helicopter missions are successful, thanks primarily to the high ability level of the helicopter crews. But considering the risk involved, it is necessary for owners, masters and officers to evaluate all safety factors in making preparations.

In the following chapter, other pieces of equipment are introduced except firefighting equipment already explained in the previous chapter.

This pertains to helicopter landing areas installed on board. The applicable provisions are based on the 1995 SOLAS Diplomatic Conference.

(Ref.: Revision of SOLAS Chap. II-2/18, Chapter III/28)
Standards mentioned in SOLAS are based upon resolution A.855(20) dated 27. November 1997.



Adjustable Wrench

Order No. 231N0038



Rescue Axe

Order No. 130N3004



Bolt Cutter

Order No. 132N9021



Crowbar / 24"

Order No. 132N9000



Hook / grab or salving

Order No. 139N0050



Hacksaw / heavy duty

Order No. 231N9231



Fire Blanket

Order No. 117N0501



Ladder

Order No. 132N9060



Life Line / 40m

Order No. 130N0600

Approval: MED 



Pliers / side cutting

Order No. 254N9123



Set of Assorted Screwdrivers

Order No. 231N1150



Harness Knife and Sheath

Order No. 139N000



Gloves / fire resistant

Order No. 130N10253

Approval: MED



First-Aid Equipment

Order No. 131N2000

Article	Quantity
BAndage , 10cm	5 pcs
BAndage , 5cm	8 pcs
BAndage Gauze , 45cmx45cm	3 pcs
Adhesive tape 10mmx3m	3 pcs
Triangular bandage 105cmx105cmx105cm	3 pcs
Eye dressing pad	3 pcs
Tourniquet	1 pc
Scissors	1 pc
Pincette	1 pc
Safety pin	12 pcs
Splint	1 pc
Traumatic ointment	45 g
Ophthalmic ointment	7 g
Antiseptic solution, 25cc	2 btls
Acetaminophen	100 tablets
Antiseptic antidiarrhea	20 tablets
Vaselin gauze 7.5cmx70cm	12 pcs

Approval: KR



Emergency Signal Torch with Baton

Order No. 130N2010MK

Approval: ATEX



Windsock for Helicopter Deck

Order No. 132N9203

- color: red/white
- ø31 cm/15 cm
- length: 120cm
- incl. eyeloops

PART 5

Chemical Protection

When handling hazardous substances, chemical protective suits are a requirement at all times. Our chemical protective suits use only tough, robust material that offers the highest level of protection on the market.

Even when they are invisible, odorless and tasteless, chemical substances and gases can be enormously damaging to the skin and/or the respiratory tract.

When choosing the right protective clothing, the level of hazard presented by chemicals, depending on the chemical class and whether it is in a liquid or a gaseous state, is a critical factor to consider for clothing that must be used in emergencies.

For solid bulk cargoes, protective wear needs to meet the equipment requirements specified in Appendix E of the BC Code for individual substances. For packaged goods, protective wear needs to meet the equipment requirements specified in the Emergency Schedules (EmS) defined in the Supplement to the IMDG Code for individual substances.

Depending on the type of cargo being carried, either the light personnel chemical protection or the heavy hooded suit may be appropriate.

Ref.: SOLAS 2004, Chap. II-2

- 19.3.6.1 (Personnel Protective Clothing)
 - 19.3.6.2 (Self-Contained Breathing Apparatuses, plus Spare Charges)
 - 19.3.7 (Additional Fire Extinguishers)
-



Gas Chemical Protective Suit

Order No. 132N1017XL

Heavy Duty, One-Piece

- gas-tight chemical protective suit
- breathing apparatus to be worn outside the suit
- material: neoprene
- protection against chemical in solid, liquid, aerosol or gaseous form
- open face with elastic face seal
- incl. boots and gloves
- color: yellow

Approval: GL

※ Items NOT including : Breathing apparatus,
Rigid helmet, Safety belt



Chemical Protective Equipment

Order No. 132N1016CE

Light Duty type

- protective suit: according to EN13034:2005
- protective helmet: according to DIN EN397
- acid protective gloves: according to EN388
- protective goggles: according to EN166
- acid protective boots: according to EN345
- acid-proof protective apron: according to EN467
- incl. bag



※ Items NOT including : Face mask



Personal Protective Equipment Box

Order No. 123N4604

- basic material: wood
- dimension: 94cm x 45cm x 75cm
- handle, door catch, hinges material: Stainless steel
-



Personal Protective Equipment Box

Order No. 123N4610

- basic material: steel
- dimension: 94cm x 45cm x 75cm
- handle, door catch, hinges material: Stainless steel
-



Emergency Shower&Eye Wash

Order No. 132N9030MK

- shower head: 254mm diameter stainless steel.
- shower valve: stainless steel 1" stay-open ball valve operated by stainless pull rod with handle.
- eye wash: stainless steel twin soft flow eye wash head assembly with pressure letdown device mounted in 254mm diameter stainless bowl.
- eye wash valve: stainless steel 1/2" stay-open ball valve operated by stainless steel push handle or foot pedal.
- pipe and fittings : 1-1/4"galvanized steel sch 40 pipe and malleable iron fittings with 230mm dia meter floor flange.



Emergency Eye Wash Wall Mounted

Order No. 132N9038MK

- eye wash head assembly: chrome plated brass twin soft flow eye head assembly with pressure letdown device.
- bowl: 254mm diameter stainless steel.
- eye wash valve: stainless steel 1/2" stay-open ball valve operated by stainless steel push handle or foot pedal



Emergency Eye Wash Pedestal Mounted

Order No. 132N9037MK

- eye wash head assembly: chrome plated brass twin soft flow eye head assembly with pressure letdown device.
- bowl: 254mm diameter stainless steel.
- eye wash valve: stainless steel 1/2" stay-open ball valve operated by stainless steel push handle or foot pedal

PART 6

Medical Equipment

1. First Aid Kits

The mandatory first aid kits installed in lifeboats, on life rafts and in other places where they are available to the crew have a limited shelf life. This means that they must be replaced on a regular basis.

On commercial vessels, additional first aid kits that are simpler than the ones installed on lifeboats and life rafts should be made available at the following

locations:

- on the bridge
- in the engine control room
- in the galley
- in other locations as well, according to the ship type

2. Equipment for Commercial Vessels

The medical equipment needed for commercial vessels includes:

- Fully equipped medical chest for the specific trading area
 - 1 bed (universal suspended)
 - Medical oxygen cylinder fully equipped (40 liters / 200 bar + portable oxygen, consisting of set of 2 liters / 200 bar + 1 spare of 2 liters / 200 bar)
 - Stretcher for helicopter evacuation
 - Captain's Medical Guide
-

First-Aid Kit

Order No. 131N2000

Article	Quantity
BAndage , 10cm	5 pcs
BAndage , 5cm	8 pcs
BAndage Gauze , 45cmx45cm	3 pcs
Adhesive tape 10mmx3m	3 pcs
Triangular bandage 105cmx105cmx105cm	3 pcs
Eye dressing pad	3 pcs
Tourniquet	1 pc
Scissors	1 pc
Pincette	1 pc
Safety pin	12 pcs
Splint	1 pc
Traumatic ointment	45 g
Ophthalmic ointment	7 g
Antiseptic solution, 25cc	2 btls
Acetaminophen	100 tablets
Antiseptic antidiarrhea	20 tablets
Vaselin gauze 7.5cmx70cm	12 pcs

Approval: KR

Oxygen Respirator according to MFG

Order No. 132N0111

- 2 oxygen cylinder light metal
- volume: 2ℓ
- pressure: 200bar
- content per cylinder: 400ℓ
- 1set=5 pcs of oxygen masks
- 1pressure reducer not adjustable, flow 4ℓ/min
- 1 carrying bag



Stretcher Neil Robertson Type

Order No. 131N1037

- for use in narrow spaces
- material: canvas



Stretcher

Order No. 131N1039

- basket type stretcher with vacuum mattress
- harness for lifting and lowering basket
- 4 restraining straps and 1 head harness
- transportation harness
- incl. foot operated vacuum pump
- dims.: L210×W60 cm



Medical Oxygen System

Order No. 131N1038

The medical oxygen system is a stationary system for storage and supply of medical oxygen to the designated area. The medical oxygen is stored in a 50 liter/200bar steel cylinders and secured to steel rack.

The medical oxygen cylinder is fitted with Pin Index valve, high flow single stage regulator and a pressure gauge. The cylinder will be connected to a wall mounted quick-connect medical gas outlet with two oxygen flow meters to monitor the flow-rate of the medical oxygen. The medical oxygen is bubbled through the humidifier that includes a pressure relief valve.

The storage medical oxygen will be regulated from 200bar to 3.5 bar (50psi).

The capacity of the medical cylinder is approximately 10,000 liters of medical oxygen and is capable of supplying continuously medical oxygen to the operator.



NOTE: Items pictured may differ from actual product.

PART 7

Measuring Instruments

Flammable Gases or Vapors

A portable gas measuring device is required so that the concentration of specific gases in the air can be continuously monitored, both in the work area, and in areas where there is the risk of explosion.

Toxic Gases

Limits on workplace exposure offer guidance on the maximum allowable levels of exposure to toxic substances. These levels are always significantly lower than the flammable limit. If there are chemicals such as CO, CO₂, NO, NO₂, HH₃, SO₂, CL₂, HCL in the surrounding air, they can easily be detected using Detector Tubes or a TOX-Meter.

Temperature Measuring Device

The adsorption of oxygen at the outer and inner surface of coal and the oxidation that results is an exothermic reaction that causes a temperature rise within the accumulated coal. If the temperature exceeds approximately 80°C, the coal can ignite and start to burn. This process, referred to as “spontaneous combustion,” is the most common cause of coal fires that occur in large-scale coal storage piles or coal waste piles.

Thermocouples are the most popular of the temperature sensors, as they are fairly low-cost yet reliable sensors that can operate over a wide temperature range.



Multigas Detector

Order No. 132N2017

- incl.4 sensors: H₂S, CO, O₂, combustibles
- visual and audible alarm
- weight: 400g

Approval: MED



Sampling Collar for Multigas Detector

Order No. 328N83064



Calibration Kit

Order No. 214N6622

- incl.4 sensors: H₂S, CO, O₂, combustibles
- visual and audible alarm
- weight: 400g



Litmus Paper for PH Value

Order No. 214N6200

- type: roller form
- paper length: 4m



Toxic Gas Detector

Order No. 132N2070

- incl. detector Accuro 2000 automatic pump
- incl. charger 6V/800mA
- incl. detector pump Accuro



Extension Hose for Toxic Gas Detector

Order No. 132N2072

- length: 3m
- with tube holder



Detector Tubes for Toxic Gas

description	measuring range	Order No.
Carbon Dioxide 0,1%/a	0,5 to 6 Vol%	132N20711
Carbon Monoxide 5/c	100 to 700 ppm	132N20712
Hydrogen Sulfide 1/d	10 to 200 ppm	132N20713
Nitrous Fumes 20/a	20 to 500 ppm	132N20714
Sulfur Dioxide 1/a	1 to 25 ppm	132N20715

※Other detector tubes available on request.



Temperature Measuring Device

Order No. 212N0006

- indicating range: -50 to +1300°C
- source: 9V DC battery
- incl. 30m of the cable with sensor

PART 8

Life Saving

NK is dedicated to providing quality-approved lifesaving equipment for commercial shipping and for people working on, above or near the water. Each unit of our lifesaving equipment and devices has been thoroughly tested and approved, according to strictest requirements of the current law.

Ref.: SOLAS 2004, Chapter III and the LSA Code.

“Safety at Sea” is our main objective. We supply a full line of lifesaving equipment to be used in all areas of aquatic pursuits. From dock to deck, our full line of lifesaving equipment will protect your crew.

These products (where applicable) are SOLAS compliant, approved by the administrations of contracting governments and certified in accordance with MED, resp. USCG, CCS, NKK or RMRS regulations.

We also stock many non-certified accessories, for which approval is not required under current legislation.

If you are outfitting a new building, renewing your lifesaving equipment, or need to service equipment, please let us know.

EEBD Escape Set

EEBD Escape Set SAVER CF10

Order No. 132N0015UK

Compressed Air Breathing Device with Hood

- provides breathing protection for 10 minutes
- 2ℓ/200 bar compressed air cylinder
- audible low content warning
- carrying bag: fluorescent orange
- dims.: L490×W160×H250mm


Approval: MED 

EEBD Escape Set SAVER CF15

Order No. 132N0016UK

Compressed Air Breathing Device with Hood

- provides breathing protection for 15 minutes
- 3ℓ/200 bar compressed air cylinder
- audible low content warning
- carrying bag: fluorescent orange
- dims.: L490×W160×H250mm

Approval: MED 

EEBD Escape Set

EEBD Escape Set 10 Min.

Order No. 132N0027

Compressed Air Breathing Device with Hood

- provides breathing protection for 10 minutes
- 2ℓ/210 bar compressed air cylinder
- weight: 6kg

Approval: MED 

EEBD Escape Set 15 Min.

Order No. 132N0028

Compressed Air Breathing Device with Hood

- provides breathing protection for 15 minutes
- 3ℓ/210 bar compressed air cylinder
- weight: 9kg

Approval: MED 



EEBD Escape Set

Order No. 132N0005

- OCENCO M-20,2**
- incl. bracket
 - provides breathing protection for 15 minutes
 - oxygen cylinder
 - maintenance free for 15 years
 - packed in orange stowage container
 - dims.: L210×W230×H100 mm

Approval: MED 



Survival Suit

Approval	Order No.
USCG	132N0115
MED	132N01001

- can be worn without life jacket(USCG)
- inflatable head support
- 6 hours thermal protection
- insulated 5-finger-gloves
- ankle and wrist adjustments for a sung fit
- light pocket
- reflective panels, whistle
- non slip soles

Approval: USCG/MED 



Marine Work Vest

Order No. 131N10481

- aquafoam flotation foam coated with PVC
- buoyancy: 17-1/2lb


Approval: USCG



Life Jacket

Order No. 131N1041ME

- compact life jacket
- color: orange
- buoyancy: 100 Newton
- reflective panels
- whistle
- dims. Not folded: L56×W30×H12 cm
- dims. folded: L31×W30×H17 cm
- weight: 650g
- adults over 32kg

Approval: MED 



Safety Work Vest

Order No. 131N1048

- automatic inflatable safety work vest
- single chamber system
- oral tube for manual activation
- whistle
- reflective panels
- color: not inflated-navy blue
- color: inflated-orange
- buoyancy: 150 Newton
- weight: 1000g






Life Jacket

Order No. 131N1044

OFFSHORE-inflatable

- automatic inflation during contact with water
- oral tube for manual activation
- whistle
- reflective panels
- twin chamber system with two independent chambers
- color: fluorescent yellow
- buoyancy: 150 Newton
- weight: 1000g


Approval: MED 



Light & Smoke Signal

Order No. 370N4220

- smoke duration: 15min
- light duration: 2hrs
- with bracket

Approval: MED 



Lifebuoy

Order No. 131N1022CE

- 4.5kg
- color: orange, 45×75cm
- reflective panels and grabline

Approval: MED 



Line Throwing Device

Order No. 131N3012

- 1 container
- 1 line
- 1 rocket
- 1 striker
- throwing range 230m

Approval: MED 



Line Throwing Device

Order No. 131N3013

- propelling type: rocket propulsion of striking
- throwing range 230m
- 4 rocket
- 1 firing gun
- 4 life line
- 1 firing tube
- 5 cartridge
- 1 screw-driver for cartridge

Approval: MED 



Pneumatic Line Thrower

Order No. 131N3010

- throwing range 230m
- 1 PLT with air cylinder
- 1 launching tube R-230
- 4 projectiles with lines
- 1 loading device complete
- 1 training projectile with tube
- 1 video/users manual

Approval: MED 

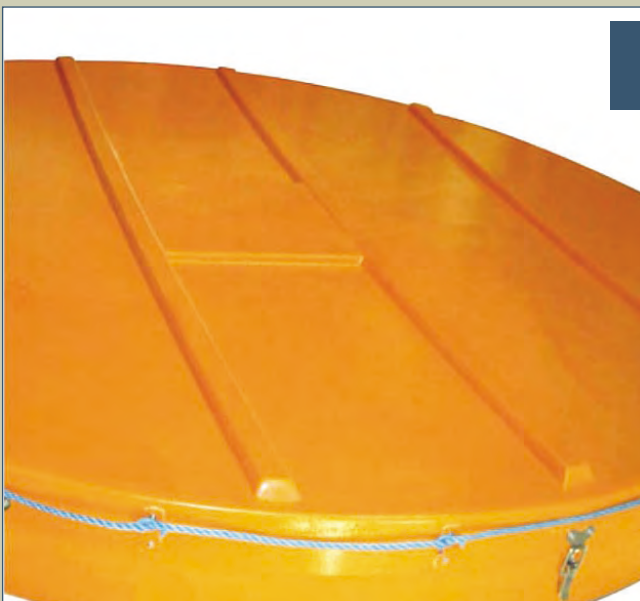


Personnel Rescue and Lifting Basket

Order No. 131N1044

OFFSHORE-inflatable

- automatic inflation during contact with water
- oral tube for manual activation
- whistle
- reflective panels
- twin chamber system with two independent chambers
- color: fluorescent yellow
- buoyancy: 150 Newton
- weight: 1000g



GRP Container for Personnel Rescue and Lifting Basket

Order No. 123N4900

- color: orange
- dims.: Ø240×40 cm

NOTE: Items pictured may differ from actual product.

