

## List of Type Approval items

### Ship Safety

- (1) Hatchway board
- (2) Hatchway cover/Tarpaulin
- (3) Clothe for tarpaulin
- (4) Waterproof clothes for tarpaulins
- (5) Noncombustible materials
- (6) Fire retardant door, fire retardant window, fire damper, other fire division partitions
- (7) Furnitures and fittings with low fire risk
- (8) Driving system for fire retardant doors
- (9) Insulating material on piping assembly for cold service systems
- (10) Moisture-proof surface materials for insulating material of cold service systems
- (11) Adhesives for insulating material of cold service systems
- (12) Coverings, Surface finish materials
- (13) Acoustic insulation between accommodation spaces, deck and bulkhead division
- (14) Internal combustion engine
- (15) Inboard-outdrive motor
- (16) Outboard motor
- (17) Water ingress alarm system
- (18) Automatic steering systems
- (19) Breathing appliance
- (20) Filter of breathing appliance
- (21) Lifeboat
- (22) Life raft
- (23) Buoyant apparatus
- (24) Rescue boat
- (25) Lifebuoy
- (26) Buoyant lifelines for lifebuoy
- (27) Lifejacket
- (28) Lifejacket for small ships/craft
- (29) Lift buoyant cushion for small ships/craft
- (30) Buoyancy aids for small ship/craft
- (31) Immersion suit
- (32) Exposure-resistant clothing

- (33) Gas generator for life-saving appliances
- (34) Canopy top light
- (35) Inside light
- (36) Manual/Hand pump
- (37) Internal combustion engines for lifeboat and rescue boat
- (38) Release hook of falls
- (39) Outboard motor of rescue boat
- (40) Equipment for lifeboat, life raft and rescue boat
  - ① Compass
  - ② Sea anchor
  - ③ Food ration
  - ④ Drinking water
  - ⑤ Seawater desalinator
  - ⑥ First aid kits
  - ⑦ Thermal protective aid
  - ⑧ Water-proof electric light
  - ⑨ Daylight signaling mirror
  - ⑩ Radar reflector
  - ⑪ Dye maker (sea surface colorant)
- (41) Equipment for lifeboat, life raft and rescue boat
- (42) Line throwing appliance
- (43) Projectiles of line throwing appliance
- (44) Lifelines for line throwing appliance
- (45) Liferaft marshalling boat
- (46) Self-igniting light
- (47) Self-activating smoke signals
- (48) Lifejacket lights
- (49) Rocket parachute flare
- (50) Rocket flare
- (51) Hand flare
- (52) Buoyant smoke signal
- (53) Float-free Polar Orbiting Satellite EPIRB
- (54) EPIRB for small ships/craft
- (55) Radar transponders
- (56) AIS SART
- (57) Portable two-way radiotelephone apparatus
- (58) Fixed two-way radiotelephone apparatus
- (59) Search light
- (60) Retro-reflective material
- (61) Automatic release system
- (62) Weak link

- (63) Embarkation appliance
- (64) Fire pump
- (65) Emergency fire pump
- (66) Fire hose
- (67) Fire nozzle
- (68) Water fog applicator
- (69) International shore connection
- (70) Sprinkler head
- (71) Water-based local application fire-fighting systems in machinery space
- (72) Portable fire extinguisher
- (73) Extinguishing medium
- (74) Personnel equipment (except for electric safety lamp and axe)
- (75) Safety lamp/light
- (76) Breathing apparatus
  - ① Smoke helmet
  - ② Smoke masks
  - ③ Self-contained breathing apparatus
  - ④ Air-supply breathing apparatus
- (77) Emergency markings
- (78) Battery-powered emergency lighting unit
- (79) Portable electric light
- (80) Emergency Escape Breathing Device (EEBD)
- (81) Navigation light
- (82) Shapes
- (83) Signal lamp
- (84) Whistle
- (85) Bell
- (86) Gong
- (87) ECDIS
- (88) NAVTEX receiver
- (89) Enhanced group call (EGC) receiver
- (90) Marine radar
- (91) Electronic plotting aid
- (92) Automatic tracking aid
- (93) Automatic radar plotting aid
- (94) Magnetic compasses
- (95) Magnetic compasses board
- (96) Gyro compasses
- (97) Gyro compasses repeater
- (98) Transmitting heading device
- (99) Echo-sounding devices

- (100) Satellite positioning device
- (101) Ship speed and distance meter
- (102) Rate of turn indicator
- (103) Acoustic receiver
- (104) Automatic Identification system (AIS)
- (105) Voyage Data Recorder (VDR)
- (106) VHF, MF or HF digital selective calling (DSC) encoder
- (107) VHF, MF or HF digital selective calling (DSC) watch receiver
- (108) Bridge Navigational Watch Alarm System (BNWAS)
- (109) Radar reflectors for collision prevention
- (110) Sea anchor
- (111) Cargo hose
- (112) Portable mechanical ventilating device
- (113) Portable gas detector
- (114) Deck washing machine
- (115) Marine Container
- (116) Working lifesaving clothing
- (117) Full protective suit

### **Marine Pollution Prevention**

- (1) Oily water separator
- (2) Oil content monitoring system for bilge water discharge
- (3) Oil content meter
- (4) Flow meter
- (5) Speed meter
- (6) Oil content monitoring and recording devices of Oil discharge monitoring and control systems (ODM) for ballast water discharge
- (7) Oil/Water interface detector
- (8) Tank washing machine
- (9) Ventilation fan
- (10) Sewage treatment plant
- (11) Exhaust gas monitoring device / Emission monitoring system for EGCS
- (12) Washwater monitoring system for EGCS
- (13) Liquid level gauging system
- (14) Pressure gauging device
- (15) High liquid level warning system
- (16) Aerator
- (17) Incineration system for ship-produced oil etc.
- (18) Pulverize
- (19) Oil boom

(20) Oil dispersant

(21) Oil absorbent

① Oil absorbent (Mat shape)

② Oil absorbent (Rope shape)

(22) Oil gelatinization agent

① Liquid oil gelatinization agent

② Powder oil gelatinization agent