



DOCUMENT OF COMPLIANCE FOR THE CARRIAGE OF DANGEROUS GOODS

DNV Id No:
29453
Date of issue:
2022-11-22

Issued in pursuance of the requirement of regulation II-2/19.4 of the International Convention for Safety of Life at Sea, 1974, as amended
under the authority of the Government of

THE HONG KONG SPECIAL ADMINISTRATIVE REGION OF THE PEOPLE'S REPUBLIC OF CHINA

by DNV

Particulars of ship

Name of Ship:	SEASPAN OSAKA
Distinctive Number or Letters:	HK-2890
Port of Registry:	HONG KONG
Type of Ship:	Container ship
Date on which keel was laid:	2010-05-24
IMO Number:	9486116

This is to certify:

- That the construction and equipment of the above mentioned ship was found to comply with the provisions of regulation II-2/19.3 as applicable according to II-2/1.2.4 of the International Convention for the Safety of Life at Sea, 1974, as amended.
- That the ship is suitable for the carriage of those classes of dangerous goods specified in the appendix hereto, subject to any provisions in the IMDG Code for individual substances, materials or articles also being complied with.

This document is valid until **2025-10-25**.

Issued at **Zhoushan, China** on **2022-11-22**



for DNV

This document is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication can be obtained from trust.dnv.com by using the Unique Tracking Number (UTN):
n1811374-dqk and ID: 29453

Yi Jeff Huang

There are no special requirements in the above-mentioned regulation II-2/19 for the carriage of dangerous goods of classes 6.2 and 7, and for the carriage of dangerous goods in limited quantities, as required in chapter 3.4 of the IMDG Code, and excepted quantities, as required in chapter 3.5 of the IMDG Code.
LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD, and any claims made against DNV based upon alleged defective services provided by DNV to designers, yards, manufacturers or other stakeholders in the newbuilding process shall under any circumstance be time-barred if made later than 12 months from delivery of the vessel. Based upon written request to the DNV legal entity which has issued this document, a higher limitation of liability may be agreed on a case-by-case basis.



Form code: DG 101

Revision: 2022-09

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Endorsement where the renewal survey has been completed and regulation I/14(d) applies

ERC

The ship complies with the relevant requirements of the Convention, and this Certificate shall, in accordance with regulation I/14(d) of the Convention, be accepted as valid until

Place: Date:

Signature:

Stamp

Endorsement to extend the validity of the Certificate until reaching the port of survey or for a period of grace where regulation I/14(e) or I/14(f) applies

EEV

This Certificate shall, in accordance with regulation I/14(e) or I/14(f)¹ of the Convention, be accepted as valid until

Place: Date:

Signature:

Stamp

Endorsement for advancement of anniversary date where regulation I/14(h) applies

EAA

In accordance with regulation I/14(h) of the Convention, the new anniversary date is

Place: Date:

Signature:

Stamp

In accordance with regulation I/14(h) of the Convention, the new anniversary date is

Place: Date:

Signature:

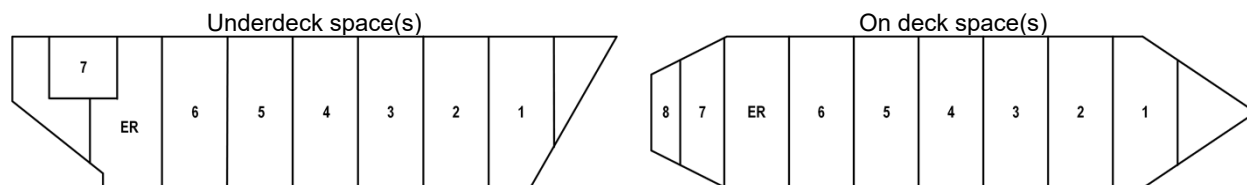
Stamp

¹ Delete as appropriate.

APPENDIX

Sketch of the vessel

Cargo spaces indicated in the sketch are corresponding with the table(s) hereafter



Packaged goods

Class	Underdeck space(s)						On deck space(s)			
	1	2	3	4 to 6	7		ER ⁷⁾	1 to 6	7	8
1.1 to 1.6	X	P ^{1) 2)}	X	X	X		X	P	X	P
1.4S	P	P	P	P	P		P	P	P	P
2.1 hydrogen and hydrogen mixtures exclusively	X	P	X	X	X		X	P	P	P
2.1 other than hydrogen and hydrogen mixtures	C	P	C	X	X		X	P	P	P
2.2	P	P	P	P	X		X	P	P	P
2.3 flammable	X	X	X	X	X		X	P	P	P
2.3 non-flammable	X	X	X	X	X		X	P	P	P
3 FP < 23°C	C	P	C	X	X		X	P	P	P
3 23°C ≤ FP ≤ 60°C	P	P	P	P	X		X	P	P	P
4.1	P ³⁾	P	P ³⁾	P ³⁾	X		X	P	P	P
4.2	P ³⁾	P	P ³⁾	P ³⁾	X		X	P	P	P
4.3 liquids	C ⁴⁾	P ⁴⁾	C ⁴⁾	C ⁴⁾	X		X	P	P	P
4.3 solids	C	P	C	C	X		X	P	P	P
5.1	P ³⁾	P	P ³⁾	P ³⁾	P ^{3) 5)}		P ⁵⁾	P	P	P
5.2	X	X	X	X	X		X	P	P	P
6.1 liquids FP < 23°C	C	P	C	X	X		X	P	P	P
6.1 liquids 23°C ≤ FP ≤ 60°C	C	P	C	C	X		X	P	P	P
6.1 liquids FP > 60°C	P	P	P	P	X		P	P	P	P
6.1 solids	P ³⁾	P	P ³⁾	P ³⁾	P ³⁾		P	P	P	P
8 liquids FP < 23°C	C	P	C	X	X		X	P	P	P
8 liquids 23°C ≤ FP ≤ 60°C	C	P	C	C	X		X	P	P	P
8 liquids FP > 60°C	P	P	P	P	P ⁶⁾		P	P	P	P
8 solids	P	P	P	P	P		P	P	P	P
9 goods evolving flammable vapour exclusively	C	P	C	X	X		P	P	P	P
9 other than goods evolving flammable vapour	P ³⁾	P	P ³⁾	P ³⁾	P ³⁾		P	P	P	P

P Indicates PACKAGED GOODS PERMITTED

C Indicates IN CLOSED FREIGHT CONTAINERS OR PORTABLE TANKS PERMITTED

X Indicates NOT PERMITTED

Remarks:

- 1) The following electrical equipment in the cargo space(s) is to be isolated from the electrical supply and to be secured against unintentional reconnection (refer to the List of Equipment): ventilation fans
- 2) The simultaneous carriage of goods requiring mechanical ventilation is not permitted.
- 3) If stowage in a "mechanically ventilated space" is stipulated by the IMDG Code, in closed freight containers.
- 4) Except goods having a flashpoint less than 23°C listed in the IMDG Code.
- 5) Except goods for which stowage "protected from sources of heat" is stipulated by the IMDG Code.
- 6) Except goods having a subsidiary risk class 6.1.
- 7) Stowage applicable between frame no. 46 and 64.

Solid bulk cargoes

Bulk cargo shipping name	Class	Underdeck space(s)					
ALUMINIUM FERROSILICON POWDER UN 1395	4.3						
ALUMINIUM NITRATE UN 1438	5.1						
ALUMINIUM SILICON POWDER, UNCOATED UN 1398	4.3						
ALUMINIUM SMELTING BY-PRODUCTS or REMELTING BY-PRODUCTS UN 3170	4.3						
AMMONIUM NITRATE BASED FERTILIZER UN 2067	5.1						
AMMONIUM NITRATE BASED FERTILIZER UN 2071	9						
AMMONIUM NITRATE UN 1942	5.1						
BARIIUM NITRATE UN 1446	5.1						
CALCIUM NITRATE UN 1454	5.1						
CASTOR BEANS UN 2969							
COPRA (dry) UN 1363	4.3						
FERROSILICON UN 1408	4.3						
FERROUS METAL BORING, SHAVINGS, TURNINGS or CUTTINGS UN 2793	4.2						
FISH MEAL (FISH SCRAP), STABILIZED UN 2216	9						
IRON OXIDE, SPENT or IRON SPONGE, SPENT UN 1376	4.2						
LEAD NITRATE UN 1469	5.1						
MAGNESIUM NITRATE UN 1474	5.1						
METAL SULPHIDE CONCENTRATES, CORROSIVE UN 1759	8						
METAL SULPHIDE CONCENTRATES, SELF-HEATING UN 3190	4.2						
POTASSIUM NITRATE UN 1486	5.1						
SEED CAKE UN 2217	4.2						
SEED CAKE, containing vegetable oil UN 1386 (a)	4.2						
SEED CAKE, containing vegetable oil UN 1386 (b) mechanically expelled seeds	4.2						
SEED CAKE, containing vegetable oil UN 1386 (b) solvent extracted seeds	4.2						
SODIUM NITRATE UN 1498	5.1						
SODIUM NITRATE AND POTASSIUM NITRATE MIXTURE UN 1499	5.1						
SULPHUR UN 1350	4.1						
ZINC ASHES UN 1435	4.3						

B Indicates SOLID BULK CARGOES PERMITTED
X Indicates NOT PERMITTED

Remarks:

List of equipment

According to the provisions of regulation II-2/19.3 as applicable according to II-2/1.2.4

Para	Requirement	Equipment provided
1.1	Compliance with reg. 10.7.2	Hold 1 to 7: Fixed CO2 system
3.1.1	Immediate supply of water	Remote start of the main fire pumps from the navigation bridge
3.1.2	Quantity of water and arrangement of hydrants	Provided
3.1.3	Water cooling	Hold 2: Fixed water spraying system of 5 l/min per m²
3.1.4	Cargo hold flooding	Not provided
3.2	Sources of ignition	Explosion protection of electrical equipment
		Hold 1, 3: at least IIB T4, IP55
		Hold 2: at least IIC T5, IP65
		Hold 4 to 7: all electrical equipment non-ex.-proof
		Electrical equipment capable of being isolated
		Hold 2: ventilation fans IIC T5, IP56
3.3	Detection system	Hold 1 to 7: Sample extraction smoke detection and alarm system
3.4.1	Mechanical ventilation	Hold 2: Six air changes/h (Exhaust from upper and lower part) Hold 1, 3 to 7: Two air changes/h (Exhaust from upper and lower part)
3.4.2	Safety of fans	Hold 1 to 3: Provided
	Wire mesh guards	Hold 1 to 3: Provided
3.4.3	Natural ventilation	Not applicable
3.5	Bilge pumping	Hold 1 to 6: Additional bilge system, isolating valve with locking device and warning signs
3.6.1	Full protective clothing	Four sets
3.6.2	Additional self-contained breathing apparatuses	Two sets in addition to fire-fighter's outfits
3.7	Portable fire extinguishers	Additional total of 12 kg dry powder
3.8	Insulation of machinery space boundaries	Hold 7: Located above engine room (deck(s) not insulated) On deck space between frame no. 46 and 64: Located above engine room (deck(s) not insulated)
3.9	Water spraying system	Not applicable
3.10	Separation of ro-ro spaces	Not applicable