

**PART II RULES FOR THE CONSTRUCTION  
AND CLASSIFICATION OF SHIPS  
IDENTIFIED BY THEIR MISSION**

**TITLE 34 LIQUEFIED GAS CARRIER**

**INTERNATIONAL CODE FOR THE  
CONSTRUCTION AND EQUIPMENT OF SHIPS  
CARRYING LIQUEFIED GASES IN BULK, 2006, AS  
AMENDED**

**ANNEX III SUMMARY OF MINIMUM  
REQUIREMENTS**

**CHAPTERS**

**A SUMMARY OF MINIMUM REQUIREMENTS**



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**CHAPTER A**  
**SUMMARY OF MINIMUM REQUIREMENTS**

CHAPTER CONTENTS

A1. SUMMARY OF MINIMUM REQUIREMENTS

**A1. 19 SUMMARY OF MINIMUM REQUIREMENTS**

**100. Explanatory notes to the summary of minimum requirements**

101. Unless otherwise specified, gas mixtures containing less than 5% total acetylenes may be transported with no further requirements than those provided for the major components.

102. MFAG numbers are provided for information on the emergency procedures to be applied in the event of an incident with the products covered by the IGC Code. Where any of the products listed are carried at low temperature from which frostbite may occur MFAG No. 620 is also applicable.

UN Numbers	The UN numbers as listed in the table of chapter 19 are intended for information only.	
Vapour detection required (column f)	F	- Flammable vapour detection
	T	- Toxic vapour detection
	O	- Oxygen analyzer
	F + T	- Flammable and toxic vapour detection
Gauging - types permitted (column g)	I	- Indirect or closed, as described in <u>13.2.2.1</u> and .2
	C	- Indirect, or closed, as described in 13.2.2.1, .2 and .3
	R	- Indirect, closed or restricted, as described in 13.2.2.1, .2, .3 and .4
Refrigerant gases	Non-toxic and non-flammable gases such as: dichlorodifluoromethane (1028) dichloromonofluoromethane (1029) dichlorotetrafluoroethane (1958) monochlorodifluoromethane (1018) monochlorotetrafluoroethane (1021) monochlorotrifluoromethane (1022)	

Columns

a	Product name.
b	UN number.
c	Ship type.
d	Independent tank type C required.
e	Control of vapour spaces within cargo tanks.
f	Vapour detection.
g	Gauging.
h	MFAG table No.
i	Special requirements.

200. Products

a	b	c	d	e	f	g	h	i
Acetaldehyde	1089	2G/2PG	-	Inert	F+T	C	300	<u>14.4.3</u> , 14.4.4, <u>17.4.1</u> , 17.6.1
Ammonia, anhydrous	1005	2G/2PG	-	-	T	C	725	14.4.2, 14.4.3, 14.4.4, 17.2.1, 17.13
Butadiene	1010	2G/2PG	-	-	F+T	R	310	17.2.2, 17.4.2, 17.4.3, 17.6, 17.8
Butane	1011	2G/2PG	-	-	F	R	310	
Butane-propane mixtures	1011 1978	2G/ 2PG	-	-	F	R	310	
Butylenes	1012	2G/ 2PG	-	-	F	R	310	
Carbon dioxide	-	3G	Yes	-	-	C	-	
Chlorine	1017	1G	Yes	Dry	T	I	740	14.4, 17.3.2, 17.4.1, 17.5, 17.7 17.9, 17.14
Diethyl ether *	1155	2G/2PG	-	Inert	F+T	C	330	14.4.2, 14.4.3, 17.2.6, 17.3.1, 17.6.1, 17.10, 17.11, 17.15
Dimethylamine	1032	2G/ 2PG	-	-	F+T	C	320	14.4.2, 14.4.3, 14.4.4, 17.2.1

Ethane	1961	2G	-	-	F	R	310	
Ethyl chlorine	1037	2G/2PG	-	-	F+T	R	340	
Ethylene	1038	2G	-	-	F	R	310	
Ethylene oxide	1040	1G	Yes	Inert	F+T	C	365	14.4.2, 14.4.3, 14.4.4, 14.4.6, 17.2.2, 17.3.2 17.4.1, 17.5, 17.6.1, 17.16
Ethylene oxidepropylene mixtures with ethylene with ethylene oxide content of not more than 30% by weight *	2983	2G/ 2PG	-	Inert	F+T	C	365	14.4.3, 17.3.1, 17.4.1, 17.6.1, 17.10, 7.11, 17.20
Isoprene *	1218	2G/2PG	-	-	F	R	310	14.4.3, 17.8, 17.10, 17.12
Isopropylamine *	1221	2G/2PG	-	-	F+T	C	320	14.4.2, 14.4.3, 17.2.4, 17.10, 17.11, 17.12, 17.17
Methane (LNG)	1972	2G	-	-	F	C	620	
Methyl acetylenepropadiene mixtures	1060	2G/2PG	-	-	F	R	310	17.18
Methyl bromide	1062	1G	Yes	-	F+T	C	345	14.4, 17.2.3, 17.3.2, 17.4.1, 17.5, 17.9
Methyl chloride	1063	2G/2PG	-	-	F+T	C	340	17.2.3
Monoethylamine *	1036	2G/ 3PG	-	-	F+T	C	320	14.4.2, 14.4.3, 14.4.4, 17.2.1, 17.3.1, 17.10, 17.11, 17.12, 17.17
Nitrogen	2040	3G	-	-	O	C	620	17.19
Pentanes (all isomers) *	1265	2G/2PG	-	-	F	R	310	14.4.4, 17.10, 17.12
Pentene (all isomers) *	1265	2G/2PG	-	-	F	R	310	14.4.4, 17.10, 17.12
Propane	1978	2G/2PG	-	-	F	R	310	
Propylene	1077	2G/2PG	-	-	F	R	310	
Propylene oxide *	1280	2G/2PG	-	Inert	F+T	C	365	14.4.3, 17.3.1, 17.4.1, 17.6.1, 17.10, 17.11, 17.20

Sulphur dioxide	1079	1G	Yes	Dry	T	C	635	14.4, 17.3.2, 17.4.1, 17.5, 17.7, 17.9
Vinyl chloride	1086	2G/ 2PG	-	-	F+T	C	340	14.4.2, 14.4.3, 17.2.2, 17.2.3, 17.3.1, 17.6, 17.21
Vinyl ethyl ether *	1302	2G/ 2PG	-	Inert	F+T	C	330	14.4.2, 14.4.3, 17.2.2, 17.3.1, 17.6.1, 17.8, 17.10, 17.11, 17.15
Vinylidene chloride *	1303	2G/2PG	-	Inert	F+T	R	340	14.4.2, 14.4.3, 17.2.5, 17.6.1, 17.8, 17.10, 17.11

\* This cargo is covered also by the IBC Code

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