

# GC 11

(Mar  
2006)  
(Rev.1  
Feb  
2016)

## Loading of cargo C tanks for ships constructed before 1 July 2016 and subject to IMO International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (MSC.5(48))

(Paragraphs 15.1.2 and 15.1.5 of the IMO International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (MSC.5(48)) as amended by Res.MSC.32(63))

Paragraph 15.1.2 reads:

~~15.1.2~~ "The maximum loading limit (LL) to which a cargo tank may be loaded should be determined by the following formula:

$$LL = FL \cdot R / L$$

$$LL = FL \rho_R / \rho_L$$

where:

LL = loading limit expressed in percent which means the maximum allowable liquid volume relative to the tank volume to which the tank may be loaded;

FL = filling limits as specified in 15.1.1 or 15.1.3;

$\rho_R$  = relative density of cargo at the reference temperature; and

$\rho_L$  = relative density of cargo at the loading temperature and pressure."

Note:

1. This Unified Interpretation is to be applied by all Members and Associate on or after 1 July, 2006.
2. Changes in the Rev.1 of this Unified Interpretation is to be applied by Members on or after 1 July 2016.

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(cont)

Paragraph 15.1.5 reads:

*“The Administration may allow type C tanks to be loaded according to the following formula provided that the tank vent system has been approved in accordance with 8.2.18:*

$$LL = FL \rho_R / \rho_L$$

where:

*LL = loading limit as specified in 15.1.2;*

*FL = filling limits as specified in 15.1.1 or 15.1.3;*

*$\rho_R$  = relative density of cargo at the highest temperature which the cargo may reach upon termination of loading, during transport, or at unloading, under the ambient design temperature conditions described in 7.1.2; and*

*$\rho_L$  = as specified in 15.1.2.*

*This paragraph does not apply to products requiring a type 1G ship.”*

**Interpretation**

~~Regardless of the date of construction of the ship,~~ For ships constructed before 1 July 2016 and subject to IMO International Code for the Construction and Equipment of Ships Carrying Liquefied Gases in Bulk (MSC.5(48)), type C cargo tanks can be loaded in accordance with the provisions of paragraph 15.1.5 or, alternatively, to the provisions of paragraph 15.1.2.

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