

*CSA Standard*

*B339-02*

***Cylinders, Spheres, and Tubes for the  
Transportation of Dangerous Goods***



**CANADIAN STANDARDS  
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*Published in October 2002 by Canadian Standards Association  
A not-for-profit private sector organization  
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original test or after 4380 pressurizations, whichever occurs first. If a cylinder is refilled more than an average of once every other day, an accurate record of the number of refillings shall be maintained.

#### 24.2.6.4

Retest markings shall be applied by low-stress-type steel stamping to a depth no greater than that of the original marking at the time of manufacture. Stamping on the sidewall shall be prohibited.

#### 24.2.6.5

When a cylinder not marked with a rejection elastic expansion (REE) is retested, it shall be stamped with the REE in millilitres near the existing marked original elastic expansion. The REE for a cylinder shall be 1.05 times its original elastic expansion.

#### 24.2.7 TC-3FCM and TC-3HWM Cylinders

TC-3FCM and TC-3HWM cylinders shall be condemned at the termination of a 15-year period following the date of the original test.

#### 24.2.8 Series-8 Cylinders

Series-8 cylinders shall be retested and reinspected in accordance with CGA Publication C-13.

#### 24.2.9 Requalification by Visual Reinspection Only

##### 24.2.9.1

The containers identified in Clause 24.2.9.3 and used exclusively for the corresponding services indicated therein may be periodically requalified by external visual reinspection without pressure retesting.

Visual inspections shall be performed in accordance with CGA Publication C-6, C-6.1, or C-6.3, as applicable.

##### 24.2.9.2

The requalification period for containers requalified by external visual reinspection as specified in Clause 24.2.9.1 shall be 5 years. An extension to 10 years shall be acceptable, provided the container is confined to a service in compliance with the following:

- (a) the lading is a liquefied gas;
- (b) the  $LC_{50}$  of the lading, by reason of toxicity, is not less than 5000 mL/m<sup>3</sup>;
- (c) the  $LC_{50}$  of the lading, by reason of a corrosion effect on tissues of the respiratory tract, is not less than 5000 mL/m<sup>3</sup>; and
- (d) contamination of the lading by water does not make the lading corrosive to the metals of containment.

**Note:**  $LC_{50}$  is defined in the *Transportation of Dangerous Goods Regulations*.

##### 24.2.9.3

The visual inspection in lieu of the hydrostatic retest may be used on the following containers:

- (a) TC-3AM, CTC-3A, TC-3AAM, CTC-3AA, CTC-3B, TC-3ANM, CTC-3A480X, CTC-3BN, TC-4AAM33, CTC-4AA480, TC-4BM, CTC-4B, TC-4BAM, CTC-4BA, TC-4BWM, CTC-4BW, CTC-4B240FLW, TC-4BM17ET, CTC-4B240ET, TC-4EM, and CTC-4E containers used to transport a liquefied or nonliquefied noncorrosive gas that requires a marked service pressure not exceeding 3.5 MPa;
- (b) ICC-3, TC-3AM, CTC-3A, TC-3AAM, CTC-3AA, CTC-3B, TC-4BM, CTC-4B, TC-4BAM, CTC-4BA, TC-4BWM, and CTC-4BW containers used exclusively to transport hydrogen fluoride, anhydrous. TC-4BM, CTC-4B, TC-4BAM, and CTC-4BA cylinders shall be of welded construction only. All cylinders shall be cleaned to bare metal before reinspection;
- (c) TC-4BM, CTC-4B, TC-4BAM, CTC-4BA containers of welded construction only, and TC-4BWM and CTC-4BW cylinders used to transport ethyleneimine, inhibited;