

Test Date Non-Bulk Steel Packagings UNUM#

8/8/08

Design Qualification

1259

## 2010

<p>Style <b>1A1</b></p> <p>Condition <b>NEW</b></p> <p>Capacity <b>75.7</b> liters <b>20.0</b> gal</p> <p>Overflow <b>80.6</b> liters <b>21.3</b> gal</p> <p>Tare <b>8.6</b> kg <b>19</b> lbs</p> <p>Height <b>508.0</b> mm <b>20</b> in</p> <p>Diameter <b>469.9</b> mm <b>18.5</b> in</p> <p>Steel-Head <b>0.9</b> mm</p> <p>Steel-Body <b>0.9</b> mm</p> <p>Steel-Bottom <b>0.9</b> mm</p> <p>Special <b>Pre-Apply Compound</b> Construction</p>	<p>End Seam <b>DOUBLE SEAM</b></p> <p>Side Seam <b>WELDED</b></p> <p>Swedges <b>2</b></p> <p>Head Fittings <b>2"x3/4"</b></p> <p>Body Fittings</p> <p>Fitting Gasket <b>poly</b></p> <p>Covers</p> <p>Gasket</p> <p>Gasket Diameter</p> <p>Ring Gage</p> <p>Closure Ring</p> <p>Bolt Size &amp; Torque</p>	<p>20-TH</p> <p>*Dimension tolerance <b>NOMINAL</b></p>
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### Drop Test - Liquid (§178.603)

Six samples are filled to >= 98% capacity with water. Each sample is dropped from the indicated height onto a solid surface using various attitudes. Drums are vented after each drop. Weakest Part: Tight-heads, second drop is flat on side seam. Open-heads second drop diagonal on head.

**1.4 Meters**

Sample	Attitude	Result
1	Chime Diagonal	No Leak
2	Chime Diagonal	No Leak
3	Chime Diagonal	No Leak
4	Weakest Part *	No Leak
5	Weakest Part *	No Leak
6	Weakest Part *	No Leak

### Drop Test - Solid (§178.603)

Six samples are filled to 95% capacity with a small grain lading. Each sample is dropped from the indicated height onto a solid surface using various attitudes.

Packing Group I 1.8 Meters			Packing Group II 1.2 Meters			Packing Group III .8 Meters		
Sample	Attitude	Result	Sample	Attitude	Result	Sample	Attitude	Result
1	Chime Diagonal	No Leak	1	Chime Diagonal	No Leak	1	Chime Diagonal	No Leak
2	Chime Diagonal	No Leak	2	Chime Diagonal	No Leak	2	Chime Diagonal	No Leak
3	Chime Diagonal	No Leak	3	Chime Diagonal	No Leak	3	Chime Diagonal	No Leak
4	Closure Diagonal	No Leak	4	Closure Diagonal	No Leak	4	Closure Diagonal	No Leak
5	Closure Diagonal	No Leak	5	Closure Diagonal	No Leak	5	Closure Diagonal	No Leak
6	Closure Diagonal	No Leak	6	Closure Diagonal	No Leak	6	Closure Diagonal	No Leak

### Leakproofness Test-Liquid (§178.604)

Three samples, with all closures in place, are subjected to the following internal pressure and restrained under water for a minimum of five minutes.

**20 kPa**

Sample	Result
1	No Leak
2	No Leak
3	No Leak

### Stacking Test - Solid (§178.606)

Three samples are filled to 95% capacity with a small grain lading and subjected to a force applied to the top surface of the drum for 24 hours equal to the total weight of identical packages which might be stacked on it during transport. Minimum stack height is 3 m.

Sample	Result
1	No Deformation
2	No Deformation
3	No Deformation

### Hydrostatic Pressure Test - Liquid (§178.605)

Three samples are filled to >= 98% capacity with water and subjected to the following internal hydraulic pressure for five minutes.

**250 kPa**

Sample	Result
1	No Leak
2	No Leak
3	No Leak

### Stacking Test - Liquid (§178.606)

Three samples are filled to >= 98% capacity with water and subjected to a force applied to the top surface of the drum for 24 hours equal to the total weight of identical packages which might be stacked on it during transport. Minimum stack height is 3 m.

**907.2 Kilograms**

Sample	Result
1	No Deformation
2	No Deformation
3	No Deformation

Liquid Rating	Solid Rating
-	-
<b>UN 1A1/Y1.4/250</b>	-
-	-

**Vibration Standard - (§178.608)** This packaging is capable of withstanding, without rupture or leakage, the vibration test outlined in this section.

**General Requirements - (§173.24, §173.24a, §178,601)** This packaging complies with the general requirements for packagings and packages.

**Package Assembly Instructions -** For correct package assembly see assembly instructions provided with your order, or visit our website at "www.myerscontainer.com" and click on UN Assembly Instructions. All drums were assembled for testing as specified in the current version of the Drum Assembly Instructions

Manufacturing Location: **Myers Container Corporation - 8435 NE Killingsworth Street, Portland, OR 97220**

(R)econditioning Location:

Date: **8/8/08** UN Testing Lab Coordinator - Sam Sanchez

