

**Myers Container Corporation**

UN Testing Laboratory  
900 Brookside Drive  
San Pablo, CA 94806

**UN Test Summary**  
Non-Bulk Steel Packagings

As required by  
49 CFR 178

**5A58**

3/2/04

Design Qualification

1032

Test Date

UNUM#

Design Number

<p>Style <b>1A2</b></p> <p>Condition <b>NEW</b></p> <p>Capacity <b>208.2</b> liters <b>55.0</b> gal</p> <p>Overflow <b>213.5</b> liters <b>56.4</b> gal</p> <p>Tare <b>18.6</b> kg <b>41</b> lbs</p> <p>Height <b>850.9</b> mm <b>33.5</b> in</p> <p>Diameter <b>571.5</b> mm <b>22.5"</b> in</p> <p>Steel-Head <b>1.2</b> mm</p> <p>Steel-Body <b>0.9</b> mm</p> <p>Steel-Bottom <b>1.2</b> mm</p> <p>Special Construction <b>Cargile curl, DOT 7-A compliant with 4-10 mil bag, UNUM 390 (History in 5558)</b></p>	<p>End Seam <b>TRIPLE</b></p> <p>Side Seam <b>WELDED</b></p> <p>Swedges <b>3</b></p> <p>Head Fittings <b>2" X 3/4"</b></p> <p>Body Fittings</p> <p>Fitting Gasket <b>Poly</b></p> <p>Covers <b>2 Re-enforce Ring</b></p> <p>Gasket <b>EPDM</b></p> <p>Gasket Diameter <b>7/16"</b></p> <p>Ring Gage <b>12 GA</b></p> <p>Closure Ring <b>V-BACK</b></p> <p>Bolt Size <b>5/8"</b></p>	<p>55-OH</p> <p>850.9 MM</p> <p>22.5" MM</p> <p>571.5 MM</p> <p>33.5</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.

Sample	Attitude	Result
1.5  Meters	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

**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.

Sample	Result
20 kPa	1 No Leak
	2 No Leak
	3 No Leak

**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.

Sample	Result
100 kPa	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.

Sample	Result
1297.3 Kilograms	1 No Deformation
	2 No Deformation
	3 No Deformation

**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
	415	

Gross Mass - Kilograms Indicated Above      Net Mass - Kilograms = Gross Mass less Tare Weight

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

**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
1297.3 Kilograms	1 No Deformation
	2 No Deformation
	3 No Deformation

Liquid Rating	Solid Rating
UN 1A2/Y1.5/100	UN 1A2/Y415/S

**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](http://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

Test Type: DESIGN QUALIFICATION      Date: 3/2/04      UN Testing Lab Coordinator - Dana Zanone