

Testing and Technical Service Office

366 Greif Parkway
Delaware, Ohio 43015
Phone: 740-657-6565
Fax: 740-657-6978



May 03, 2018

UNITED NATIONS/IMO/DOT PERFORMANCE TEST

Report No:	F-1595-XX-050318	Test Type:	New Certification
Test Date:	5/3/2018	Plant:	Naperville, IL
Expiration Date:	5/3/2019		

Mr. Mike Mohn,

Attached are our laboratory test result sheets of the UN/DOT Performance Test on the fibre drums that were sent to the Greif - Alsip, IL Technical Center.

These sample containers that were made with the proper components passed the required drop and compression tests for the following UN Marking(s):

1G/Y60/S/YR

1G/Z60/S/YR

The tested drums also meet NMFC/UFC standards for a fibre drum up to 225 Lbs. Net Weight Limit and 5 Gallon Capacity.

Thank you and best regards.

JB:ch

A handwritten signature in black ink, appearing to read "Jordan Brodsky", written over a horizontal line.

Jordan Brodsky

Director Product Technical and Regulatory Support

TESTING and TECHNICAL SERVICE OFFICE

UNITED NATION/IMO/DOT

PERFORMANCE TEST



Date Tested: 5/3/2018
 Report #: F-1595-XX-050318
 Closure Notification: F22-F

ORIGINAL DESIGN TYPE RESULT SHEET

Drum Style: Greif Ro-Con Transport Fibre Drum with Bag UN Code: 1G Packing Group II
 GBC Code: RT122 050 U7DKKK000 100 000000 / RO-CON TRANSPORT/BAG Cover: _____
 Dimensions: I.D.: 308.0 MM / 12.125 In. O.H.: 219.1 MM / 8.625 In.

UN Certified Markings:  1G/Y60/S/YR USA/GBC  1G/Z60/S/YR USA/GBC  USA/GBC

Maximum and Minimum Capacity 18.9 - 18.9 Litres / 5 - 5 Gallons
 Test Mass - Gross: 60 KG / 132.3 Lbs.
 Tare: 1.2 KG / 2.6 Lbs.
 Net: 58.8 KG / 129.7 Lbs.

Package Preparation: Drums filled with sand and sawdust (min grain size 125micrometers) to a minimum of 95%.
 Conditioning: 24 Hours at 23°C, ±2°C Temperature and 50%, ±2% Relative Humidity.

Drop Tests (49 CFR 178.603)

Drop Height: 1.2 Metres / 47.25 Inches
 Results Diagonal Top Drop: **3 Drums Passed**
 Results Diagonal Bottom Drop: **3 Drums Passed**

Vibration Test (49 CFR 178.608)

Capable of withstanding, without rupture or leakage, the vibration tests procedure in 49 CFR 178.608.

Leakproofness Test (49 CFR 178.604)

Air Pressure Applied: _____ psi
 Results after 5 minutes: **Not Applicable**

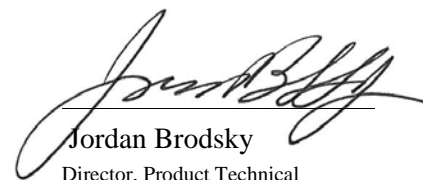
Hydraulic (Hydrostatic) Test (49 CFR 178.605)

Internal (Hydraulic) Pressure: _____ kPa for a period of _____ minutes
 Results: **Not Applicable**

Static Compression Test (49 CFR 178.606)

Total Mass: 762.0 KG (12.7 Drums x 60 KG each)
 Duration: 24 Hours
 Results: **3 Drums Passed**

TEST RESULTS CERTIFIED BY: **GREIF TESTING and TECHNICAL SERVICES**


 Jordan Brodsky
 Director, Product Technical and Regulatory Support

This test report is the property of Greif. The know-how, methods and techniques disclosed in this report are confidential information which can only be used by those persons with specific written authorization from Greif.

GREIF CLOSURE INSTRUCTIONS

Pursuant to the requirements of the Department of Transportation in CFR 49 Part 178.2(c)(1), this method of closure should be used to ensure that your containers have been closed in the same manner as when they were initially tested. If there is any question regarding proper closing methods, contact your local Greif salesperson or manufacturing facility. "Effective until further notice".

To Close:

- 1) This drum must be used with a polyethylene bag with a minimum 2 Mil thickness. Fill product into the bag. Twist neck of bag tight and fold in half. Tie neck of bag with wire or plastic tie.
 - 2) Telescoping cover must fit securely on drum. Cover must be pushed down onto drum until the top edge of the drum body touches the inside top of the cover.
 - 3) The cover must be secured to the drum body using adhesive tape, Intertape - Model RG3...56, 3-inch wide filament tape or equivalent filament reinforced 72mm (3" nominal) wide natural rubber adhesive tape. The tape must wrap around the drum body two times. There should be approximately 1½" of tape on the cover and 1½" of tape on the body of the drum. Press and rub the tape firmly into place around the entire drum.
 - 4) Drums closed in this manner have met the UN performance test requirements as specified in the container markings.
-

REV-KF-05/03/07

Drum Code: RT122 050 U7DKKK000 100 000000

Report #: F-1595

Date Tested: 5/3/2018

Technician: JA (Sample drums were closed exactly as described above.)

This UN test certification report form is a sample of the closure notification form. The data on this form reflect the components of the tested sample drums; it details the closing methods followed at the lab.

The closure notification form should be completed using information from the actual customer specification. These values may differ from the sample closing instructions supplied with the UN test certification report.

To obtain this form for your customer service use, contact:

Greif - Testing and Technical Services
366 Greif Parkway
Delaware, Ohio 43015
(740) 657-6565