



**UNITED NATIONS / DOT
PERFORMANCE CERTIFICATION**



Consolidated Container Company

4G DESIGN QUALIFICATION

4 x 1 Gallon Round Plastic Bottle with Two Case

Sealing Mechanisms:

#1: Taped Top & Bottom Flaps

#2 Glued Top and Bottom Flaps

TEST REPORT #: 07-7148



**4G / Y19.7 / S / **
USA / +CC4796**

** Insert year the packaging is manufactured

TESTING PERFORMED FOR:

CONSOLIDATED CONTAINERS COMPANY

1070 Samuelson Street

Industry, CA 91748

TESTING PERFORMED BY:

TEN-E Packaging Services, Inc.

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November 30, 2007

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NOTES AND COMMENTS


Consolidated Container is adding Glued Top and Bottom Flaps Case Sealing Mechanism to Package Design +CC4796
 Testing was conducted on the 4 x 1 Gallon Round Plastic Bottle with Two Case Sealing Mechanisms:
 #1: Taped Top & Bottom Flaps
 #2 Glued Top and Bottom Flaps

SECTION I: CERTIFICATION

**Design Qualification of the Consolidated Container Company
4 x 1 Gallon Round Plastic Bottle with Two Case Sealing Mechanisms:
#1: Taped Top & Bottom Flaps #2: Glued Top and Bottom Flaps**

TEN-E PACKAGING SERVICES, INC. certifies that the Consolidated Container Company packaging referenced above has passed the standards of the DEPARTMENT OF TRANSPORTATION'S TITLE 49 CFR; Performance Oriented Packaging Standards, Section 178. This package is also certified under IMDG, ICAO/IATA Regulations and the UN Recommendations on the Transport of Dangerous Goods. It is the responsibility of the end user to determine authorization for use under these regulations. The use of other packaging methods or components other than those documented in this report may render this certification invalid.

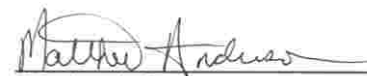
SUMMARY OF PERFORMANCE TESTS

UN /DOT TEST	CFR REFERENCE	TEST LEVEL	TEST CONTENTS	TEST COMPLETED	TEST RESULTS
Drop #1	178.603	1.2m	Methanol / Water	October 12, 2007	PASS
Drop #2	178.603	1.2m	Methanol / Water	October 12, 2007	PASS
Stacking #1	178.606	181.4 Kg – 24 Hrs.	Water	October 12, 2007	PASS
Stacking #2	178.606	181.4 Kg – 24 Hrs.	Water	October 12, 2007	PASS
Pressure	173.27	95kPa – 30 Min.	Water	October 12, 2007	PASS
Vibration #1	178.608	3.5 Hz – 1 Hr.	Water	October 12, 2007	PASS
Vibration #2	178.608	3.5 Hz – 1 Hr.	Water	October 12, 2007	PASS
Cobb	178.516	30 minutes	---	October 12, 2007	PASS
TEST REPORT NUMBERS:			07-7148, 06-7036		
UN MARKING: (CFR 49 - 178.503)				4G / Y19.7 / S / ** USA / +CC4796	
PACKAGING IDENTIFICATION CODE:			4G - Fiberboard Box (178.516)		
PERFORMANCE STANDARD:			Y (Packaging meets Packing Group II and III tests)		
AUTHORIZED GROSS MASS:			19.7 Kg (43.4 Lbs.)		
"S" DESIGNATION:			Denotes Inner Packagings		
YEAR OF MANUFACTURE:			**Insert year the packaging is manufactured		
STATE AUTHORIZING THE MARK:			USA		
PACKAGING CERTIFICATION AGENCY:			(+CC) TEN-E Packaging Services, Inc. (Ontario, CA)		
THIRD PARTY PACKAGE IDENTIFICATION:			+CC4796		
PERIODIC RETEST DATE:			October 12, 2009		

ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY THAT THE PACKAGING TESTED IS MERCHANTABLE OR FIT FOR A PARTICULAR PURPOSE, ARE DISCLAIMED. In no event shall TEN-E Packaging Services, Inc. liability exceed the total amount paid by Consolidated Container Company for services rendered. In the event of future changes to the above referenced test standard, it is the responsibility of Consolidated Container Company to determine whether additional testing or updating of past testing is necessary to verify that the packaging we have tested remains in compliance with those standards.

MANUFACTURER:

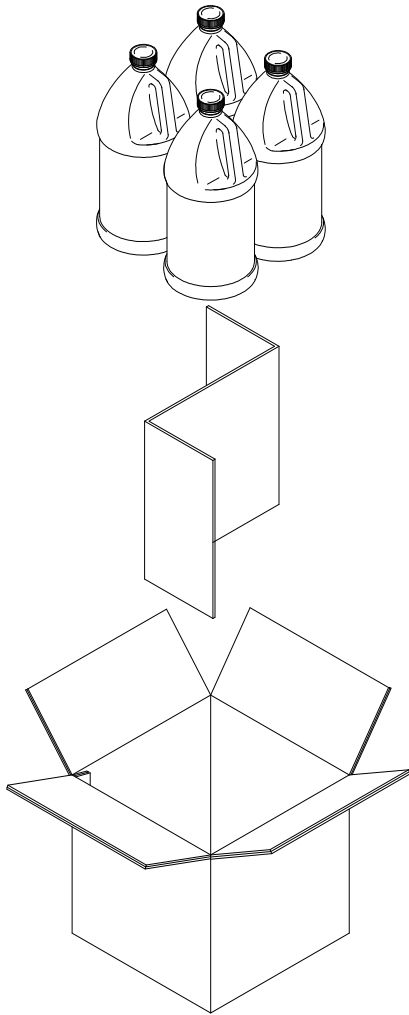
Consolidated Container Company
1070 Samuelson Street
Industry, CA 91748



Matthew Anderson
Packaging Engineer
TEN-E Packaging Services, Inc.
326 North Corona Avenue
Ontario, CA 91764

SECTIONS II & V: PACKAGING DESCRIPTION / COMPONENT DRAWINGS

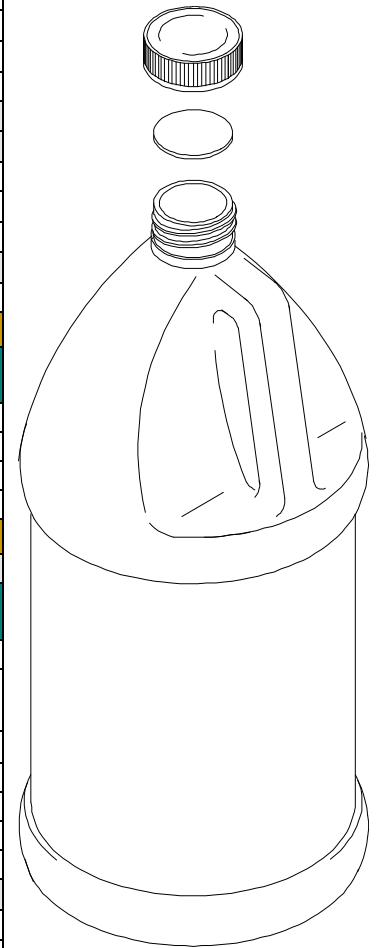
4 x 1 Gallon Round Plastic Bottle with Taped Top & Bottom Flaps		
ASSEMBLY DRAWING	TEST LEVELS	
	Certification Type: Design Qualification	
	Packaging Code Designation: 4G	
	Packing Group: II	
	Specific Gravity: 1.2	
	Internal Pressure: 95kPa	
	TEST SAMPLE PREPARATION (Refer to Section IV)	
	Overall Package Tare Weight: 1,356 Grams	
	Fill Capacity (98% Overflow):	
	• Methanol/Water 3,751 Grams	
	• Water 3,907 Grams	
	Package Test Weight:	
	• Methanol/Water 16.3 Kg 35.9 Lbs	
	• Water 16.9 Kg 37.2 Lbs	
	Authorized Package Gross Mass: 20.1 Kg 44.3 Lbs	
	CLOSING METHODS – INNER PACKAGING	
Application Torque: 19 In – Lbs		
Equipment: Vibrac Torque Meter		
CLOSING METHODS – SHIPPER		
Top Flaps:		
Type: 3M #375 Pressure Sensitive Tape		
Width: 2"		
Overlap: 2" Minimum		
Tape Pattern: Center		
Inner Flaps: Meet		
Outer Flaps: Meet		
Bottom Flaps:		
Type: 3M #375 Pressure Sensitive Tape		
Width: 2"		
Overlap: 2" Minimum		
Tape Pattern: Center		
Inner Flaps: Meet		
Outer Flaps: Meet		



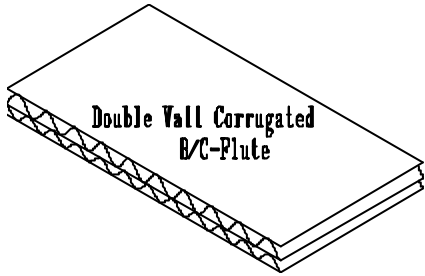
4 x 1 Gallon Round Plastic Bottle with Glued Top & Bottom Flaps		
ASSEMBLY DRAWING	TEST LEVELS	
	Certification Type: Periodic Retest	
	Packaging Code Designation: 4G	
	Packing Group: II	
	Specific Gravity: 1.2	
	Internal Pressure: 95kPa	
	TEST SAMPLE PREPARATION (Refer to Section IV)	
	Overall Package Tare Weight: 1,356 Grams	
	Fill Capacity (98% Overflow):	
	• Methanol/Water 3,751 Grams	
	• Water 3,907 Grams	
	Package Test Weight:	
	• Methanol/Water 16.3 Kg 35.9 Lbs	
	• Water 16.9 Kg 37.2 Lbs	
	Authorized Package Gross Mass: 20.1 Kg 44.3 Lbs	
	CLOSING METHODS – INNER PACKAGING	
Application Torque: 19 In – Lbs		
Equipment: Vibrac Torque Meter		
CLOSING METHODS – SHIPPER		
Top Flaps:		
Type: Hot Melt Glued		
Inner Flaps: Meet		
Outer Flaps: Meet		
Bottom Flaps:		
Type: Hot Melt Glued		
Inner Flaps: Meet		
Outer Flaps: Meet		

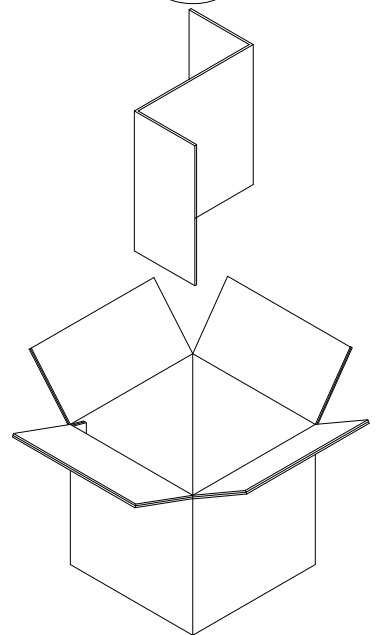
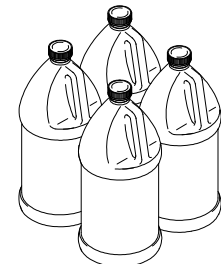
For Packagings with an Established Gross Mass:

If the gross mass calculation in this report exceeds the previously established gross mass, the manufacturer may elect to maintain the current gross mass marking (e.g. the gross mass rating of the UN marking on the packaging may be less than the calculated gross mass indicated in this report) or use the newly established gross mass. In no event shall the gross mass marking on the packaging exceed the gross mass to which the packaging was tested.

CLOSURE			Drawing
Manufacturer: Rexam Closures			
Component Information	Specification Information	Quality Control Audit	
Description:	38mm CRC Closure		
Material/Pigment:			
• Outside	Polypropylene, White	Polypropylene, White	
• Inside	Polypropylene, Natural	Polypropylene, Natural	
Density:			
• Outside		0.894 g/cc	
• Inside		0.907 g/cc	
Tare Weight:		8.24 Grams	
Overall Dimensions:			
• Height		0.710"	
• Diameter		1.779"	
Thread:			
• Type			
• Style			
Finish Dimensions:			
• T		1.472"	
• E		1.372"	
• Thread Pitch			
Markings (QC Audit):	REXAM 9716		
LINER			
Component Information	Specification Information	Quality Control Audit	
Description:	P.E. Foam Liner		
Tare Weight:		0.42 Grams	
Thickness:		0.041"	
Diameter:		1.368"	
BOTTLE			
Manufacturer: Consolidated Container			
Component Information	Specification Information	Quality Control Audit	
Description:	1 Gallon Round Plastic Bottle		
Material/Pigment:	Natural High Density Polyethylene	Natural High Density Polyethylene	
Method of Mfgr:	Blow Molded	Blow Molded	
Density:		0.940 g/cc	
Melt Index (I ²¹):		30.40 g/10 minutes	
Tare Weight:		117 Grams	
Capacity:			
• Rated	1 Gallon		
• Overflow		3,907 Grams	
Overall Dimensions:			
• Height		11.775"	
• Diameter		5.966"	
Finish Dimensions:			
• T		1.469"	
• E		1.369"	
• Thread Pitch		0.167"	
Wall Thickness:			
• Nominal			
• Minimum		0.014"	
Markings (QC Audit):	HDPE MA8410	2	



INSERT (RAW PTR000 74)			Drawing
Manufacturer: Smurfit Stone			
Component Information	Specification Information	Quality Control Audit	
Description:	"Z" Divider		
Material/Flute:	26 ECT Single Wall Natural Kraft Corrugated Fiberboard: C-Flute	Single Wall Natural Kraft Corrugated Fiberboard: C-Flute	
Basis Weight Lbs./MSF (Outer to Inner):	26/26/26	26.1/26.7/26.4	
Combined Wt. of Facings:		52.5	
Board Caliper (Nom.):		0.140"	
Tare Weight:		86 Grams	
Overall Dimensions:			
• Length	24-7/8"	24-7/8"	
• Width	11-15/16"	11-15/16"	
Markings (QC Audit):	0074		
SHIPPER (RAWBXO1802)			
Manufacturer: Smurfit Stone			
Component Information	Specification Information	Quality Control Audit	
Description:	Regular Slotted Container		
Material/Flute (Inner to Outer):	51 ECT Double Wall Natural Kraft Corrugated Fiberboard: B/C-Flute	Double Wall Natural Kraft Corrugated Fiberboard: B/C-Flute	
Basis Weight Lbs./MSF (Outer to Inner):	42/26/35/26/35	43.1/26.7/36.3/25.7/35.1	
Combined Wt. of Facings:		114.5	
Tare Weight:		777 Grams	
Dimensions	Inside	Outside	
• Length:	12-7/16"	13"	
• Width:	12-7/16"	12-7/8"	
• Height:	11-7/8"	13-1/4"	
Board Caliper (Nom.):		0.259"	
Manufacturer's Joint		Inside Glued; 1-1/2" Lap	
Markings (QC Audit):	 4G/Y19.7/S/07 UN#PO60406 USA/+CC4796 9/23/07 11252901		
Box Certificate		Flute Drawing	
			









SECTION III: TEST PROCEDURES AND RESULTS

DROP TESTS

Option #1: Taped Top & Bottom

TEST INFORMATION	CRITERIA FOR PASSING THE TEST
<p>TEST CONTENTS: Methanol/Water Solution (0.96 SG)</p> <p>SAMPLE PREPARATION: Refer to Section II</p> <p>CONDITIONING: -18°C (0°F), Chamber #201</p> <p>TEST CONTENTS TEMP.: -18°C (0°F),</p> <p>DROP HEIGHT: 1.2 Meters (48") (Refer to Section IV.)</p> <p>TEST EQUIPMENT: L.A.B. Accu Drop 160 #301</p>	<ul style="list-style-type: none"> • For packaging containing liquid, each packaging does not leak. • There can be no damage to the outer packaging likely to adversely affect safety during transport and there is no leakage of the filling substance from the inner packaging. • Any discharge from a closure is slight and ceases immediately after impact with no further leakage. (§178.603)

DROP ORIENTATIONS & TEST RESULTS

Sample #1: Flat on Bottom	Sample #2: Flat on Top	Sample #3: Flat on Long Side
		
<p>PASS: No leakage or damage.</p>	<p>PASS: No leakage or damage.</p>	<p>PASS: No leakage or damage.</p>
Sample #4: Flat on Short Side	Sample #5: Bottom Corner	*Sample #1: Top Corner
		
<p>PASS: No leakage or damage.</p>	<p>PASS: No leakage. Slight deformation at impact corner.</p>	<p>PASS: No leakage. Slight deformation at impact corner.</p>







*Sample used for Flat on Bottom Drop is also used for the Top Corner Drop

DROP TESTS

Option #2: Glued Top & Bottom Flaps

TEST INFORMATION	CRITERIA FOR PASSING THE TEST
<p>TEST CONTENTS: Methanol/Water Solution (0.96 SG)</p> <p>SAMPLE PREPARATION: Refer to Section II</p> <p>CONDITIONING: -18°C (0°F), Chamber #201</p> <p>TEST CONTENTS TEMP.: -18°C (0°F),</p> <p>DROP HEIGHT: 1.2 Meters (48") (Refer to Section IV.)</p> <p>TEST EQUIPMENT: L.A.B. Accu Drop 160 #301</p>	<ul style="list-style-type: none"> • For packaging containing liquid, each packaging does not leak. • There can be no damage to the outer packaging likely to adversely affect safety during transport and there is no leakage of the filling substance from the inner packaging. • Any discharge from a closure is slight and ceases immediately after impact with no further leakage. <p>(§178.603)</p>

DROP ORIENTATIONS & TEST RESULTS


Sample #6: Flat on Bottom	Sample #7: Flat on Top	Sample #8: Flat on Long Side
		
<p>PASS: No leakage or damage.</p>	<p>PASS: No leakage or damage.</p>	<p>PASS: No leakage or damage.</p>
Sample #9: Flat on Short Side	Sample #10: Bottom Corner	*Sample #6: Top Corner
		
<p>PASS: No leakage or damage.</p>	<p>PASS: No leakage. Slight deformation at impact corner.</p>	<p>PASS: No leakage. Slight deformation at impact corner.</p>

*Sample used for Flat on Bottom Drop is also used for the Top Corner Drop

STACKING TEST

Option #1: Taped Top & Bottom

TEST INFORMATION		CRITERIA FOR PASSING THE TEST
TEST CONTENTS:	Water	<ul style="list-style-type: none"> • There must be no leakage of the filling substance from the inner receptacle, or inner packaging. • There can be no deterioration that could adversely affect transport safety or any distortion liable to reduce the package's strength, cause instability in stacks of packages, or cause damage to inner packagings that is likely to reduce safety in transport. (§178.606)
SAMPLE PREPARATION:	Refer to Section II	
CONDITIONING:	73°F / 50% RH, Chamber #202	
TEST LOAD APPLIED:	181.4 Kg (400.0 Lbs.) (Refer to Section IV.)	
TEST DURATION:	24 Hours	
TEST EQUIPMENT:	Dead Load Weights	

STACKING TEST SET-UP AND RESULTS			
	Sample #	Maximum Deflection After 24 Hours	Results
	6	0.00"	PASS
	7	1/8"	PASS
	8	0.00"	PASS
	Stacking Stability:	Not conducted; required only for guided load tests.	

STACKING TEST

Option #2: Glued Top & Bottom Flaps

TEST INFORMATION		CRITERIA FOR PASSING THE TEST
TEST CONTENTS:	Water	<ul style="list-style-type: none"> • There must be no leakage of the filling substance from the inner receptacle, or inner packaging. • There can be no deterioration that could adversely affect transport safety or any distortion liable to reduce the package's strength, cause instability in stacks of packages, or cause damage to inner packagings that is likely to reduce safety in transport. (§178.606)
SAMPLE PREPARATION:	Refer to Section II	
CONDITIONING:	73°F / 50% RH, Chamber #202	
TEST LOAD APPLIED:	181.4 Kg (400.0 Lbs.) (Refer to Section IV.)	
TEST DURATION:	24 Hours	
TEST EQUIPMENT:	Dead Load Weights	

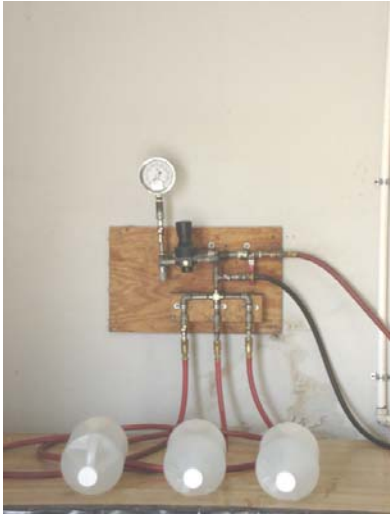
STACKING TEST SET-UP AND RESULTS

Photo Not Available	Sample #	Maximum Deflection After 24 Hours	Results
	6	0.00"	PASS
	7	1/8"	PASS
	8	0.00"	PASS
Stacking Stability:		Not conducted; required only for guided load tests.	

PRESSURE DIFFERENTIAL TEST

TEST INFORMATION		CRITERIA FOR PASSING THE TEST
TEST CONTENTS:	Water	<ul style="list-style-type: none"> • Packaging for which retention of liquid is a basic function must be capable of withstanding the pressure requirements without leakage. (§173.27)
FILL CAPACITY:	Maximum Capacity	
CLOSURE APPLICATION:	Refer to Section II	
CONDITIONING:	Ambient	
TEST PRESSURE:	95 kPa	
TEST DURATION:	30 Minutes	
AREA OF PRESSURIZATION:	Through the Bottom	
TEST EQUIPMENT:	Regulated Water Source Gauge #602	


HYDROSTATIC PRESSURE TEST SET-UP & RESULTS

	Sample #	Results	Comments / Observations
	1	PASS	All three samples maintained the 95 kPa test pressure for 30 minutes without leakage.
	2	PASS	
	3	PASS	

REPETITIVE SHOCK VIBRATION TEST

Option #1: Taped Top & Bottom

TEST INFORMATION	CRITERIA FOR PASSING THE TEST
<p>TEST CONTENTS: Water</p> <p>SAMPLE PREPARATION: Refer to Section II</p> <p>CONDITIONING: 73°F / 50% RH, Chamber #202</p> <p>TABLE DISPLACEMENT: 1”</p> <p>TEST FREQUENCY: 3.5Hz</p> <p>TEST DURATION: 1 Hour</p> <p>TEST EQUIPMENT: Vertical motion using L.A.B. Palletizer Transportation Simulator #501</p>	<p>Immediately following the period of vibration, each package must be removed from the platform, turned on its side and observed for any evidence of leakage.</p> <ul style="list-style-type: none"> A packaging passes the vibration test if there is no rupture or leakage from any of the packages. No test sample should show any deterioration which could adversely affect transportation safety or any distortion liable to reduce packaging strength. (\$178.608)

VIBRATION TEST SET-UP & RESULTS			
	Sample #'s	Results	Comments / Observations
	6	PASS	No leakage or damage.
	7	PASS	
	8	PASS	

REPETITIVE SHOCK VIBRATION TEST

Option #2 Glued Top & Bottom Flaps

TEST INFORMATION		CRITERIA FOR PASSING THE TEST
TEST CONTENTS:	Water	Immediately following the period of vibration, each package must be removed from the platform, turned on its side and observed for any evidence of leakage. <ul style="list-style-type: none"> • A packaging passes the vibration test if there is no rupture or leakage from any of the packages. • No test sample should show any deterioration which could adversely affect transportation safety or any distortion liable to reduce packaging strength. (\$178.608)
SAMPLE PREPARATION:	Refer to Section II	
CONDITIONING:	73°F / 50% RH, Chamber #202	
TABLE DISPLACEMENT:	1"	
TEST FREQUENCY:	3.5 Hz	
TEST DURATION:	1 Hour	
TEST EQUIPMENT:	Vertical motion using L.A.B. Palletizer Transportation Simulator #501	

VIBRATION TEST SET-UP & RESULTS

	Sample #'s	Results	Comments / Observations
Photo Not Available	6	PASS	No leakage or damage.
	7	PASS	
	8	PASS	

COBB WATER ABSORPTION TEST

TEST INFORMATION		CRITERIA FOR PASSING THE TEST
SAMPLE SIZE:	(5) 5" x 5" Squares	<ul style="list-style-type: none"> An increase in mass greater than 155 g/m² over the 30 minute duration represents an unacceptable level of water resistance. (§178.516)
CONDITIONING:	73°F / 50% RH, Chamber #202	
WATER APPLIED:	100mL / Sample	
TEST DURATION:	30 Minutes / Sample	
TEST EQUIPMENT:	UWE Analytical Balance #102 Gurley Cobb Water Absorption Apparatus	

COBB WATER ABSORPTION TEST RESULTS	
Sample #	Water Absorbed (g/m ²)
1	104/m ²
2	105/m ²
3	92/m ²
4	92m ²
5	102/m ²
AVERAGE:	99/m²
RESULT	PASS

REGULATORY AND INDUSTRY STANDARD REFERENCES

REGULATORY REFERENCES

TEST	49 CFR^① 2006 Edition	UN^② 14th Edition	IMDG^③ 2006 Edition	ICAO^④ 07-08 Edition	IATA^⑤ 48th Edition
Drop:	178.603	6.1.5.3	6.1.5.3	6; 4.3	6.3.3
Stacking:	178.606	6.1.5.6	6.1.5.6	6; 4.6	6.3.6
Pressure:	173.27(c)	4.1.1.4.1	---	4; 1.1.6	5.0.2.9
Vibration:	178.608	---	---	4; 1.1.1	5.0.2.7
Cobb:	178.516	6.1.4.12.1	6.1.4.12.1	6; 3.1.11.1	6.2.12.2

① United States Department of Transportation Code of Federal Regulations (CFR) Title 49, Transportation, Parts 100-199

② The United Nations Recommendations on the Transport of Dangerous Goods — Model Regulations. (UN – Orange Book)

③ International Maritime Dangerous Goods Code (IMDG)

④ Technical Instructions for the Safe Transport of Dangerous Goods by Air (ICAO)

⑤ International Air Transport Association (IATA) Dangerous Goods Regulations

INDUSTRY STANDARD REFERENCES

Drop:	ASTM [©] D5276:	Standard Test Method for Drop Test of Loaded Containers by Free Fall
	ISO [Ⓣ] 2248:	Packaging – Complete, Filled Transport Packages – Vertical Impact Test By Dropping
Stacking:	ASTM [©] D4577:	Standard Test Method for Compression Resistance of a Container Under Constant Load
	ISO [Ⓣ] 2234:	Packaging – Complete, Filled Transport Packages – Stacking Tests using Static Load
Vibration:	ASTM [©] D999:	Standard Test Method for Vibration Testing of Shipping Containers
	ISO [Ⓣ] 2247:	Packaging – Complete, Filled transport Packages – Vibration Test at Fixed Low Frequency
Cobb:	ISO [Ⓣ] 535:	Paper and Board - Determination of Water Absorption - Cobb Method

©American Society For Testing and Materials (ASTM)

ⓉInternational Organization For Standardization (ISO)

EQUIPMENT

All inspection, measuring and test equipment that can affect product quality is calibrated and adjusted at prescribed intervals, or prior to use, and is traceable to NIST, using ANSI Z540 as an overall guide for calibration certification.

SECTION IV: MATHEMATICAL CALCULATIONS

INFORMATION USED FOR CALCULATIONS

Overall Package Tare Weight (PTW):	1,356 Grams	
Overflow Capacity (OFC):		Methanol/Water SG
Methanol/Water	3,828 Grams	SG: 0.960
Water	3,987 Grams	
Number of Inner Packagings (# IP):	4	
Packing Group	II	
Product Specific Gravity (PSG):	1.2	
Packing Group Multiplication Factor (MF):	1.00	
Overall Height of one Package (OH):	13.00 Inches	
Stack Test-# of Samples Tested Simultaneously:	3	

98% OF OVERFLOW

Overflow Capacity (OFC) x 98%

<u>OFC</u>	x	<u>98%</u>		
3,828	x	98% =	3,751 Grams	Methanol/Water
3,987	x	98% =	3,907 Grams	Water

PACKAGE TEST WEIGHTS

Overall Pkg Tare Weight (PTW) + (98% Overflow Capacity (OFC) x # of Inner Pkg (# IP))

<u>PTW</u>	+	<u>(98% OFC)</u>	x	<u># IP</u>	
1,356	+	3,751	x	4	Methanol/Water
1,356	+	3,907	x	4	Water
Methanol/Water:		16.3	Kg	35.9	Lbs.
Water:		16.9	Kg	37.2	Lbs.

AUTHORIZED PACKAGE GROSS MASS CALCULATION (APGM)

Overall Pkg Tare Weight (PTW) + (Product SG (PSG) x 98% Overflow (OFC) x # of Inner Pkg (# IP))

<u>PTW</u>	+	<u>(PSG)</u>	x	<u>98% OFC</u>	x	<u># IP</u>
1,356	+	1.2	x	3,907	x	4
		20.1	Kg	44.3	Lbs.	

DROP HEIGHT

Calculation For Product Specific Gravities Exceeding 1.2

Product Specific Gravity (PSG) x Packing Group Multiplication Factor (MF)

<u>PSG</u>	x	<u>MF</u>		<u>Packing Group: II</u>
1.2	x	1.00		
		1.20	Meter	
				<u>Required Drop Height</u>
				<u>Actual Drop Height</u>
				47.2 Inches
				48 Inches

STACK TEST MINIMUM LOAD CALCULATIONS

Number of Packages in a 3m High Stack (118 / Overall Pkg Height (OH) -1)

118 / Overall Height of one Pkg (OH) - 1

<u>(118</u>	/	<u>OH)</u>	-1	=	<u># 3m HS</u>
118	/	13.00	-1	=	8.1

Stack Test Load Calculation (Individual Package)

Authorized Pkg Gross Mass (APGM) x # of Pkg in a 3m High Stack (# 3m HS)

<u>APGM</u>	x	<u># 3m HS</u>	
20.1	x	8.1	
			162.8 Kg
			358.9 Lbs.