


**UNITED NATIONS / DOT
PERFORMANCE CERTIFICATION**



4G PERIODIC RETEST

**4 x 9 Pint Beta Plastic Bottle Packaging with Vented
Closure and Two Case Sealing Mechanisms**

TEST REPORT #: 17-CA20085B (REV 1)

 4G / Y21.4 / S / **
USA / +CC8142

**Insert the year packaging is manufactured

TESTING PERFORMED FOR:

PUREPAK TECHNOLOGY CORPORATION

324 South Bracken Lane, Suite 3
Chandler, AZ 85224

ATTN: Michael Dodd

TESTING PERFORMED BY:

TEN-E PACKAGING SERVICES, INC.

326 North Corona Avenue
Ontario, CA 91764
Phone: 909-937-1260
Fax: 909-937-1262

Issue Date: May 17, 2017
Revision Date: August 23, 2017

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4 x 9 Pint Beta Plastic Bottle Packaging with Vented Closure and The Following Case Sealing Mechanism Variables:

Option #	Top Flaps	Bottom Flaps
1	2" 3M #34508 Scotch Tape	2" 3M #34508 Scotch Tape
2	2" 3M #34508 Scotch Tape	Hot Melt Adhesive

REVISION HISTORY


Note for Rev 1: Test Report 17-CA20085B issued on May 17, 2017 has been updated as of August 23, 2017 updating the corrugated manufacturer's specification numbers on page 8.

SECTION I: CERTIFICATION

**Periodic Retest of the PurePak Technology Corporation
 4 x 9 Pint Beta Plastic Bottle Packaging with Vented Closure and Two Case Sealing Mechanisms**

TEN-E Packaging Services, Inc. is a current DOT UN Third-Party Certification Agency under §107.403 and certifies that the **PurePak Technology Corporation** 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 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.

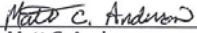
SUMMARY OF PERFORMANCE TESTS

UN / DOT TEST	CFR REFERENCE	TEST LEVEL	TEST CONTENTS	TEST COMPLETED	TEST RESULTS
Drop	178.603	1.2 m	Methanol/Water Solution	May 17, 2017	PASS
Stacking (#1)	178.606	498.9 Kg – 24 Hours	Water	May 17, 2017	PASS
Stacking (#2)	178.606	498.9 Kg – 24 Hours	Water	May 18, 2017	PASS
Vibration	178.608	3.5 Hz – 1 Hour	Water	May 16, 2017	PASS
Cobb	178.516	30 Minutes	---	May 12, 2017	PASS
TEST REPORT NUMBERS:			17-CA20085B, 15-CA20085B		
UN MARKING: (CFR 49 – 178.503)			 4G / Y21.4 / S / ** USA / +CC8142		
PACKAGING IDENTIFICATION CODE:			4G - Fiberboard Box (178.516)		
PERFORMANCE STANDARD:			Y (Packaging meets Packing Group II and III tests)		
AUTHORIZED GROSS MASS:			21.4 Kg (47.1 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 CAA #2006030021)		
THIRD PARTY PACKAGING IDENTIFICATION:			+CC8142		
PERIODIC RETEST DATE:			May 17, 2019		

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 **PurePak Technology Corporation** for services rendered. In the event of future changes to the above referenced test standards, it is the responsibility of **PurePak Technology Corporation** 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.

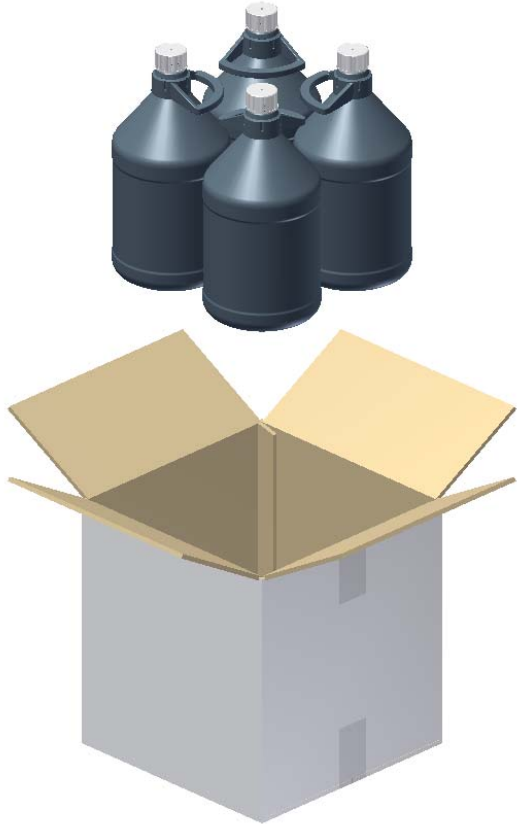
MANUFACTURER:

PurePak Technology Corporation
 324 South Bracken Lane Suite 3
 Chandler, AZ 85224


 Matt C. Anderson
 Project Manager
 TEN-E Packaging Services, Inc.

SECTIONS II & V: PACKAGING DESCRIPTIONS / COMPONENT DRAWINGS

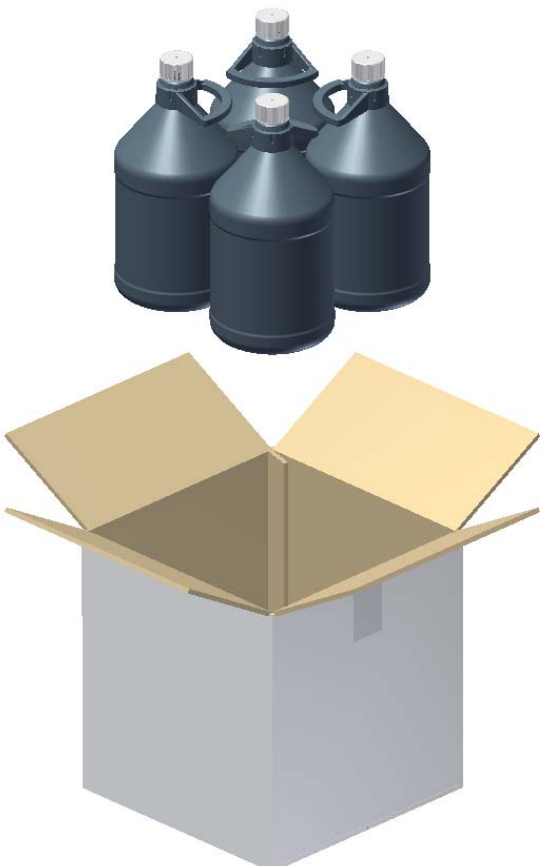
4 x 9 Pint Beta Plastic Bottle Packaging with Vented Closure

ASSEMBLY DRAWING	TEST LEVELS		
	Certification Type: Periodic Retest		
	Packaging Code Designation: 4G		
	Packing Group: II		
	Specific Gravity: 1.2		
	TEST SAMPLE PREPARATION (Refer to Section IV)		
	Overall Packaging Tare Weight: 1,732.0 Grams		
	Fill Capacity (98% Maximum Capacity):		
	Methanol/Water	3,947.5 Grams	
	Water	4,155.2 Grams	
	Package Test Weight:		
	Methanol/Water	17.5 Kg	38.5 Lbs
	Water	18.3 Kg	40.3 Lbs
	Authorized Package Gross	21.6 Kg	47.6 Lbs
	Mass:		
	CLOSING METHODS – INNER PACKAGING		
	Application Torque:	50 In-Lbs	
	Equipment:	Kaps All Electronic Torque Tester #W701	
	CLOSING METHODS – SHIPPER		
	Top Flaps:		
	Manufacturer: 3M, St. Paul, MN		
Type:	Options #1 & #2: 3M #34508 Scotch Brand Pressure Sensitive Tape		
Width:	48 mm (2")		
Overlap:	2" Minimum		
Tape Pattern:	Center Seam		
Inner Flaps:	Meet		
Outer Flaps:	Meet		
Bottom Flaps:			
Manufacturer: 3M, St. Paul, MN			
Type:	Option #1) 3M #34508 Scotch Brand Pressure Sensitive Tape		
Width:	48 mm (2")		
Overlap:	2" Minimum		
Tape Pattern:	Center Seam		
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.


4 x 9 Pint Beta Plastic Bottle Packaging with Vented Closure


ASSEMBLY DRAWING	TEST LEVELS		
	Certification Type: Periodic Retest		
	Packaging Code Designation: 4G		
	Packing Group: II		
	Specific Gravity: 1.2		
	TEST SAMPLE PREPARATION (Refer to Section IV)		
	Overall Packaging Tare Weight: 1,732.0 Grams		
	Fill Capacity (98% Maximum Capacity):		
	Methanol/Water	3,947.5 Grams	
	Water	4,155.2 Grams	
	Package Test Weight:		
	Methanol/Water	17.5 Kg	38.5 Lbs
	Water	18.3 Kg	40.3 Lbs
	Authorized Package Gross	21.6 Kg	47.6 Lbs
	Mass:		
	CLOSING METHODS – INNER PACKAGING		
	Application Torque:	50 In-Lbs	
	Equipment:	Kaps All Electronic Torque Tester #W701	
	CLOSING METHODS – SHIPPER		
	Top Flaps:		
	Manufacturer: 3M, St. Paul, MN		
Type:	Options #1 & #2: 3M #34508 Scotch Brand Pressure Sensitive Tape		
Width:	48 mm (2")		
Overlap:	2" Minimum		
Tape Pattern:	Center Seam		
Inner Flaps:	Meet		
Outer Flaps:	Meet		
Bottom Flaps:			
Manufacturer: 3M, St. Paul, MN			
Type:	Option #2) Hot Melt Adhesive (Prepared by Client as for Transport) (Three Strips of Thermoset Adhesive – 1/2" x 4")		
Width:	48 mm (2")		
Overlap:	2" Minimum		
Tape Pattern:	Center Seam		
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.

COMPONENT INFORMATION

CLOSURE (QIM-317-4937)		DRAWING
Manufacturer: Rexam Plastic Packaging, Evansville, IN		
Description:	38mm Threaded Vented Closure	
Quantity:	4	
Material:	Polypropylene	
Tare Weight:	10.40 Grams	
Overall Dimensions:		
• Height	1.016" ± 0.015"	
• Diameter	1.701" ± 0.015"	
Thread Dimensions:		
• T	1.481" ± 0.007"	
• E	1.389" ± 0.007"	
Markings (QC Audit):	10	
Liner:		
Description:	Perforated Disc with a Non-Woven Teflon Surface Membrane	
Tare Weight:	0.50 Grams	
Thickness:	0.041"	
Diameter:	1.377"	

PLASTIC BOTTLE		DRAWING
Manufacturer: PurePak Technology Corporation, Chandler, AZ		
Description:	9 Pint Beta Plastic Bottle with Oval Handle	
Quantity:	4	
Material/Pigment:	High Density Polyethylene/Black	
Method of Manufacture:	Blow Molded	
Tare Weight:	190.0 Grams ± 5.0 Grams	
Capacity:		
• Rated	9 Pint	
• Overflow	4,240.0 Grams (1.1 Gallons)	
Overall Dimensions:		
• Height	12.694" ± 0.045"	
• Diameter	6.231" ± 0.117"	
Thread Dimensions:		
• T	1.461" ± 0.041"	
• E	1.367" ± 0.056"	
Wall Thickness:		
• Minimum	0.030"	
Markings (QC Audit):	SPI "2" HDPE Recycling Symbol PPT 3 10/16	

SHIPPER (507089, 507097, 507098 and 817308)

Manufacturer: PCA, Phoenix, AZ

Description:	Regular Slotted Container
Material/Flute (Inner to Outer):	51 ECT Double Wall Mottled White Corrugated Fiberboard; B/C-Flute
Basis Weight (Outer to Inner) Lbs./MSF:	
• Specification	42 / 23 / 35 / 23 / 35
Tare Weight:	801.0 Grams

DIMENSIONS

	Specification Dimensions (Inside)	Measured Dimensions (Outside)
• Length	12-3/4"	13-3/8"
• Width	12-3/4"	13-3/8"
• Height	13"	14"
Board Caliper (Nominal):	0.271"	
Manufacturer's Joint:	Inside Glued, 1-3/8" Lap	
Markings (QC Audit):	(u n) 4G/X23.2/S/17 4G/Y33.8/S/17 4G/Y21.4/S/17 USA/+CC7640 USA/+CC7640 USA/+CC8142 BETA OPEN OTHER END NRC 507098 Artwork Date: 04/06/17 507098 12 3/4 X 12 3/4 X 13 ID 726866 HANDLE WITH CARE CORROSIVE 8 TOXIC 6	

BOX CERTIFICATE

(A) Corrugated Manufacturer:	-----	
(B) Structure:	Double Wall	
(C) ECT:	51 Lbs. Per Sq. Inch	
(D) Size Limit:	105"	
(E) Gross Wt. Lt:	120 Lbs.	
(F) Location:	-----	







SECTION III: TEST PROCEDURES AND RESULTS

DROP TESTS

Design #1

TEST INFORMATION		TEST CRITERIA
TEST CONTENTS:	Methanol/Water Solution (0.950 SG)	<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. Inner receptacles, inner packagings or articles must remain completely within the outer packaging and there must be 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)
SAMPLE PREPARATION:	Refer to Section II	
CONDITIONING:	-18°C (0°F) Freezer #W201	
CONTENTS TEMP.:	-19.6°C (-3.2°F)	
DROP HEIGHT:	1.2 Meters (48.0") (Refer to Section IV)	
TEST EQUIPMENT:	L.A.B. Accu Drop 160	

DROP ORIENTATIONS AND TEST RESULTS

Sample #1: Flat on Bottom	Sample #2: Flat on Top	*Sample #3: Flat on Long Side
		
PASS: No leakage or damage.	PASS: No leakage or damage.	PASS: No leakage or damage.
*Sample #4: Flat on Short Side	*Sample #5: Bottom Corner	**Sample #1: Top Corner
		
PASS: No leakage or damage.	PASS: No leakage. Deformation to shipper on impact.	PASS: No leakage. Deformation to shipper on impact.

*Side and corner drops were conducted to impact the manufacturer's joint.







**Flat on bottom drop sample was also used for the top corner drop.

DROP TESTS

Design #2

TEST INFORMATION		TEST CRITERIA
TEST CONTENTS:	Methanol/Water Solution (0.950 SG)	<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. Inner receptacles, inner packagings or articles must remain completely within the outer packaging and there must be 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)
SAMPLE PREPARATION:	Refer to Section II	
CONDITIONING:	-18°C (0°F) Freezer #W201	
CONTENTS TEMP.:	-19.6°C (-3.2°F)	
DROP HEIGHT:	1.2 Meters (48.0") (Refer to Section IV)	
TEST EQUIPMENT:	L.A.B. Accu Drop 160	

DROP ORIENTATIONS AND TEST RESULTS

Sample #12: Flat on Bottom	Sample #13: Flat on Top	*Sample #14: Flat on Long Side
		
PASS: No leakage or damage.	PASS: No leakage or damage.	PASS: No leakage or damage.
*Sample #15: Flat on Short Side	*Sample #16: Bottom Corner	**Sample #12: Top Corner
		
PASS: No leakage or damage.	PASS: No leakage. Deformation to shipper on impact.	PASS: No leakage. Deformation to shipper on impact.

*Side and corner drops were conducted to impact the manufacturer's joint.

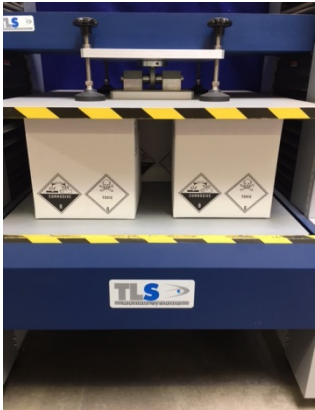
**Flat on bottom drop sample was also used for the top corner drop.

STACKING & STACKING STABILITY TESTS

Design #1


TEST INFORMATION		TEST CRITERIA
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:	Ambient	
TEST LOAD APPLIED:	498.9 Kg (1,100.0 Lbs) (Refer to Section IV)	
TEST DURATION:	24 Hours	
TEST EQUIPMENT:	TLS Validator Compression System	

STACKING TEST SET-UP & RESULTS

	Sample #	Maximum Deflection After 24 Hours	Results
	6	0.042"	PASS
	7	0.042"	PASS
	8	0.042"	PASS

Comments/Observations: Following the 24-hour stack test, there was no leakage of contents from the test samples and no damage likely to affect the performance of the packaging.

STACKING STABILITY TEST SET-UP & RESULTS

	Results	CRITERIA FOR PASSING THE TEST
	PASS	<ul style="list-style-type: none"> In guided load tests, stacking stability must be assessed after test completion. Two filled packagings of the same type must be placed on the test sample. The stacked packages must maintain their position for one hour. (§178.606)


For stack stability, TEN-E places the filled samples one on top of the other. The bottom sample is rotated to the top until all three samples have been subjected to stacking stability for one hour each.

STACKING & STACKING STABILITY TESTS

Design #2


TEST INFORMATION		TEST CRITERIA
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:	Ambient	
TEST LOAD APPLIED:	498.9 Kg (1,100.0 Lbs) (Refer to Section IV)	
TEST DURATION:	24 Hours	
TEST EQUIPMENT:	TLS Validator Compression System	

STACKING TEST SET-UP & RESULTS

	Sample #	Maximum Deflection After 24 Hours	Results
	17	0.030"	PASS
	18	0.030"	PASS
	19	0.030"	PASS

Comments/Observations: Following the 24-hour stack test, there was no leakage of contents from the test samples and no damage likely to affect the performance of the packaging.

STACKING STABILITY TEST SET-UP & RESULTS

	Results	CRITERIA FOR PASSING THE TEST
	PASS	<ul style="list-style-type: none"> In guided load tests, stacking stability must be assessed after test completion. Two filled packagings of the same type must be placed on the test sample. The stacked packages must maintain their position for one hour. (\$178.606)


For stack stability, TEN-E places the filled samples one on top of the other. The bottom sample is rotated to the top until all three samples have been subjected to stacking stability for one hour each.

VIBRATION TEST

Design #1

TEST INFORMATION		TEST CRITERIA
TEST CONTENTS:	Water	<ul style="list-style-type: none"> 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. 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:	Ambient	
TABLE DISPLACEMENT:	1"	
TEST FREQUENCY:	3.5 Hz	
TEST DURATION:	1 Hour	
TEST EQUIPMENT:	Vertical motion using L.A.B. Palletizer Vibration System	

VIBRATION TEST SET-UP AND RESULTS


	Sample #	Results	Comments/Observations
	9	PASS	No leakage or damage.
	10	PASS	
	11	PASS	

VIBRATION TEST

Design #2

TEST INFORMATION		TEST CRITERIA
TEST CONTENTS:	Water	<ul style="list-style-type: none"> 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. 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:	Ambient	
TABLE DISPLACEMENT:	1"	
TEST FREQUENCY:	3.5 Hz	
TEST DURATION:	1 Hour	
TEST EQUIPMENT:	Vertical motion using L.A.B. Palletizer Vibration System	

VIBRATION TEST SET-UP AND RESULTS

	Sample #	Results	Comments/Observations
	20	PASS	No leakage or damage.
	21	PASS	
	22	PASS	

COBB WATER ABSORPTION TEST

TEST INFORMATION		TEST CRITERIA
NUMBER OF SAMPLES:	5	<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)
SAMPLE SIZE:	5" x 5" (Minimum)	
CONDITIONING:	73°F / 50% RH Quality Room #W202	
WATER APPLIED:	100 mL / Sample	
TEST DURATION:	30 Minutes / Sample	
TEST EQUIPMENT:	UWE Analytical Balance Gurley Cobb Water Absorption Fixtures	

COBB WATER ABSORPTION TEST RESULTS	
Sample #	Water Absorbed
1	118.0 g/m ²
2	130.0 g/m ²
3	105.0 g/m ²
4	136.0 g/m ²
5	113.0 g/m ²
AVERAGE:	120.4 g/m²
RESULT	PASS

REGULATORY AND INDUSTRY STANDARD REFERENCES

REGULATORY REFERENCES

TEST	49 CFR ^①	UN ^②	IMDG ^③
	October 2016 Edition	19 th Edition	2016 Edition
Drop:	178.603	6.1.5.3	6.1.5.3
Stacking:	178.606	6.1.5.6	6.1.5.6
Vibration:	178.608	---	---
Cobb:	178.516(b)(1)	6.1.4.12.1	6.1.4.12.1

① United States Department of Transportation Code of Federal Regulations (CFR) Title 49, Transportation, Parts 100-185

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

③ International Maritime Dangerous Goods Code (IMDG)

INDUSTRY STANDARD REFERENCES

Drop:	ASTM ^④ D5276:	Standard Test Method for Drop Test of Loaded Containers by Free Fall
	ASTM ^④ D7790	Standard Test Method for the Preparation of Plastic Packagings Containing Liquids for United Nations (UN) Drop Testing
	ISO ^⑤ 2248:	Packaging – Complete, Filled Transport Packages – Vertical Impact Test by Dropping
Stacking:	ASTM ^④ D4577:	Standard Test Method for Compression Resistance of a Container Under Constant Load
	ISO ^⑤ 2234:	Packaging – Complete, Filled Transport Packages – Stacking Test using Static Load
Vibration:	ASTM ^④ D999:	Standard Test Method for Vibration Testing of Shipping Containers
	ISO ^⑤ 2247:	Packaging – Complete, Filled Transport Packages – Vibration Test at Fixed Low Frequency
Cobb:	ISO ^⑤ 535:	Paper and Board – Determination of Water Absorption – Cobb Method

④ American Society for Testing and Materials (ASTM)

⑤ 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 Packaging Tare Weight (PTW):	1,732.0 Grams	
Overflow Capacity (OFC):		<u>Methanol/Water</u>
Methanol/Water	4,028.0 Grams	SG: 0.950
Water	4,240.0 Grams	
Number of Inner Packagings (# IP):	4	
Packing Group	II	
Product Specific Gravity (PSG):	1.200	
Packing Group Multiplication Factor (MF):	1.00	
Overall Height of one Package (OH):	14.00 Inches	
Stack Test-# of Samples Tested Simultaneously:	3	

98% OF OVERFLOW

Overflow Capacity (OFC) x 98%

<u>OFC</u>	x	<u>98%</u>		
4,028.0	x	98% =	3,947.5 Grams	Methanol/Water
4,240.0	x	98% =	4,155.2 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>	
1,732	+	3,947.5	x	4	Methanol/Water
1,732	+	4,155.2	x	4	Water
Methanol/Water:		17.5	Kg	38.5	Lbs.
Water:		18.3	Kg	40.3	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>
1,732	+	1.2	x	4,155	x	4
		21.6	Kg	47.6	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>		Packing Group: II
1.2	x	1.00		
		1.20	Meter	
			<u>Required Drop Height</u>	<u>Actual Drop Height</u>
			47.2 Inches	48 Inches

STACKING 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	/	14.00	-1	=	7.5

Stacking 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>	
21.6	x	7.5	
		162.0 Kg	357.1 Lbs.

Stacking Test Load Calculation

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

<u>Samples</u>	x	<u>(APGM)</u>	x	<u># 3m HS</u>
3	x	21.6	x	7.5
		486.0 Kg		1,071.4 Lbs.