

**UNITED NATIONS / DOT
PERFORMANCE CERTIFICATION**



4G PERIODIC RETEST

**4 x 1 Gallon Plastic 150 Gram Bottle Packaging
and Two Case Sealing Variables**

TEST REPORT #: 25-CA20106



4G / Y23.5 / S / **
USA / +CC7715

**Insert the last two digits of the year of manufacture

TESTING PERFORMED FOR:

PUREPAK TECHNOLOGY CORPORATION

75 West Baseline Road Suite D44
Gilbert, AZ 85233

ATTN: Michael Dodd

TESTING PERFORMED BY:

TEN-E PACKAGING SERVICES, INC.

326 North Corona Avenue
Ontario, CA 91764
Phone: 909-937-1260
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July 23, 2025



TEN-E Packaging Services, Inc.

Test Report # 25-CA20106

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NOTES AND COMMENTS

Testing was conducted on the 4 x 1 Gallon Plastic 150 Gram Bottle Packaging with Two Case Sealing Variables:

#1) Taped Top and Bottom Flaps

#2) Taped Top and Hot Melt Glued Bottom Flaps



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SECTION I: CERTIFICATION

Periodic Retest of the Purepak Technology Corporation 4 x 1 Gallon Plastic 150 Gram Bottle Packaging and Two Case Sealing Variables

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, 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	49 CFR REFERENCE	TEST LEVEL	TEST CONTENTS	TEST COMPLETED	TEST RESULTS
Drop	178.603	1.5 m	Methanol/Water Solution	July 3, 2025	PASS
Stacking #1	178.606	204.1 Kg – 24 Hours	Empty	July 3, 2025	PASS
Stacking #2	178.606	204.1 Kg – 24 Hours	Empty	July 2, 2025	PASS
Pressure	173.27	95 kPa - 30 Minutes	Water	July 23, 2025	PASS
Vibration	178.608	3.7 Hz – 1 Hour	Water	July 2, 2025	PASS
Cobb	178.516	30 Minutes	---	July 23, 2025	PASS
TEST REPORT NUMBERS:			25-CA20106, 21-CA20122		
UN MARKING: (CFR 49 – 178.503)			<div>u n</div> 4G / Y23.5 / S / ** USA / +CC7715		
PACKAGING IDENTIFICATION CODE:			4G - Fiberboard Box (178.516)		
PERFORMANCE STANDARD:			Y (Packaging meets Packing Group II and III tests)		
AUTHORIZED GROSS MASS:			23.5 Kg (51.8 Lbs.)		
"S" DESIGNATION:			Denotes Inner Packagings		
YEAR OF MANUFACTURE:			**Insert the last two digits of the year of manufacture		
STATE AUTHORIZING THE MARK:			USA		
PACKAGING CERTIFICATION AGENCY:			(+CC) TEN-E Packaging Services, Inc. (Ontario, CA CAA #2006030021)		
THIRD PARTY PACKAGING IDENTIFICATION:			+CC7715		
PERIODIC RETEST DATE:			July 23, 2027		

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.

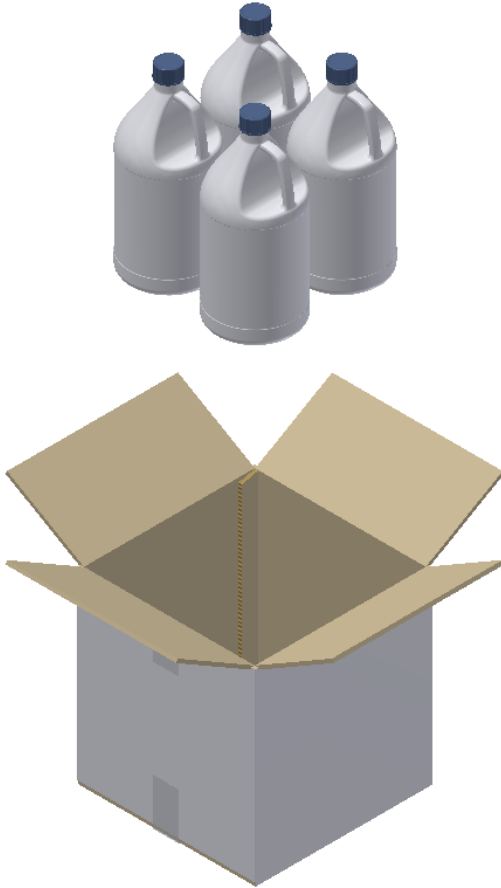
MANUFACTURER:

PurePak Technology Corporation
75 West Baseline Road Suite D44
Gilbert, AZ 85233


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

SECTIONS II & V: PACKAGING DESCRIPTIONS / COMPONENT DRAWINGS

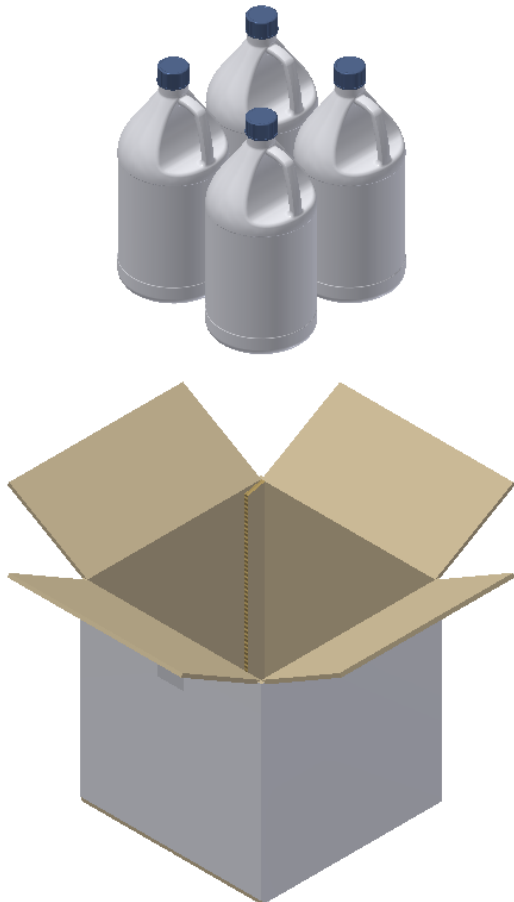
Variable #1: 4 x 1 Gallon Plastic 150 Gram Bottle Packaging (Taped Top and Bottom Flaps)

ASSEMBLY DRAWING	TEST LEVELS		
	Certification Type:		Periodic Retest
	Packaging Code Designation:		4G
	Packing Group:		II
	Specific Gravity:		1.5
	Internal Pressure:		95 kPa
	TEST SAMPLE PREPARATION (Refer to Section IV)		
	Overall Packaging Tare Weight:		1,408 Grams
	Fill Capacity (98% Maximum Capacity):		
	Methanol/Water Solution		3,679 Grams
	Water		3,849 Grams
	Package Test Weight:		
	Methanol/Water Solution		16.1 Kg 35.4 Lbs.
	Water		16.8 Kg 37.0 Lbs.
	Authorized Package Gross Mass:		
	24.4 Kg		53.7 Lbs.
	CLOSING METHODS – INNER PACKAGING		
	38mm Polypropylene Closure:		
	Application Torque:		50 In-Lbs.
	Equipment:		Torque Wrench #W702
	CLOSING METHODS – SHIPPER		
	Top Flaps:		
Manufacturer:		3M, St. Paul, MN	
Type:		3M MMM115894 Pressure Sensitive Tape	
Width:		48 mm (2")	
Overlap:		2" Minimum	
Tape Pattern:		Center Seam	
Bottom Flaps:			
Manufacturer:		3M, St. Paul, MN	
Type:		3M MMM115894 Pressure Sensitive Tape	
Width:		48 mm (2")	
Overlap:		2" Minimum	
Tape Pattern:		Center Seam	

For Packaging's 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.



**Variable #2: 4 x 1 Gallon Plastic 150 Gram Bottle Packaging
(Taped Top and Glued Bottom Flaps)**

ASSEMBLY DRAWING	TEST LEVELS		
	Certification Type:		Periodic Retest
	Packaging Code Designation:		4G
	Packing Group:		II
	Specific Gravity:		1.5
	Internal Pressure:		95 kPa
	TEST SAMPLE PREPARATION (Refer to Section IV)		
	Overall Packaging Tare Weight:		1,408 Grams
	Fill Capacity (98% Maximum Capacity):		
	Methanol/Water Solution		3,679 Grams
	Water		3,849 Grams
	Package Test Weight:		
	Methanol/Water Solution		16.1 Kg 35.4 Lbs.
	Water		16.8 Kg 37.0 Lbs.
	Authorized Package Gross Mass:		
	24.4 Kg		53.7 Lbs.
	CLOSING METHODS – INNER PACKAGING		
	38mm Polypropylene Closure:		
	Application Torque:		50 In-Lbs.
	Equipment:		Torque Wrench #W702
	CLOSING METHODS – SHIPPER		
	Top Flaps:		
	Manufacturer:		3M, St. Paul, MN
	Type:		3M MMM115894 Pressure Sensitive Tape
	Width:		48 mm (2")
	Overlap:		2" Minimum
Tape Pattern:		Center Seam	
Bottom Flaps:			
Type:	(Prepared by Client as for Transport) Hot Melt Adhesive (Three Strips of Thermoset Adhesive – 1/2" x 4") (PHC-9256)		

For Packaging's 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: Berry Plastics, Evansville, IN		
Description:	38mm Threaded Ribbed Closure	
Quantity:	4	
Material:	Polypropylene	
Tare Weight:	10.44 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):	2	
LINER:		
Description:	Polyethylene Foam Liner	
Tare Weight:	0.70 Grams	
Thickness:	0.057"	
Diameter:	1.381"	
PLASTIC BOTTLE		DRAWING
Manufacturer: PurePak Technology Corporation, Chandler, AZ		
Description:	1 Gallon Round Plastic Bottle with Integrated Handle	
Quantity:	4	
Material:	High Density Polyethylene	
Method of Manufacture:	Blow Molded	
Tare Weight:	149.0 Grams ± 6.0 Grams	
Capacity:		
• Rated	1 Gallon	
• Overflow	3.927 Liters (1.037 Gallons)	
Overall Dimensions:		
• Height	12.350" ± 0.090"	
• Diameter	6.072" ± 0.080"	
Thread Dimensions:		
• T	1.461" ± 0.015"	
• E	1.367" ± 0.015"	
Wall Thickness:		
• Minimum	0.020"	
Markings (QC Audit):	SPI "2" HDPE Recycling Symbol 8085 CKS 4 09:15 01.14. 25 LN 3	



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SHIPPER (731197 & 830600)

Manufacturer: Packaging Corporation of America, Plano TX

Description: Regular Slotted Container

Material/Flute (Outer to Inner): Double Wall Mottled White Corrugated Fiberboard; B/C-Flute

Basis Weight (Outer to Inner) Lbs./MSF:

• **Specification** 35 / 23 / 35 / 23 / 35

Tare Weight: 767 Grams


DIMENSIONS

	Specification Dimensions (Inside)	Measured Dimensions (Outside)
--	-----------------------------------	-------------------------------

• Length	12-5/16"	12-7/8"
• Width	12-5/16"	12-7/8"
• Height	12-5/8"	13-7/8"

Board Caliper (Nominal): 0.267"

Manufacturer's Joint: Inside Glued, 1-3/8" Lap

Markings (QC Audit):  4G / Y23.5 / S / 24
USA / +CC7715
HANDLE WITH CARE THIS SIDE UPC804179 ARTWORK DATE 04/05/21
12.3125 X 12.3125 X 12.625 ID

BOX CERTIFICATE

(A) Corrugated Manufacturer: PACKAGING CORPORATION OF AMERICA

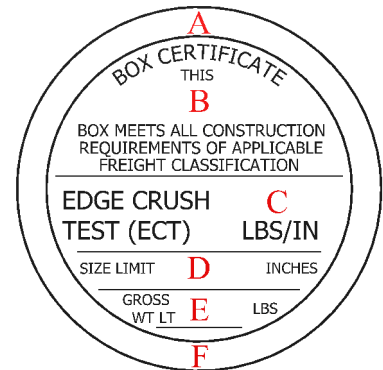
(B) Structure: Double Wall

(C) ECT: 51 Lbs. Per Inch

(D) Size Limit: 105"

(E) Gross Wt. Lt: 120 Lbs.

(F) Location: PLANO, TEXAS









SECTION III: TEST PROCEDURES AND RESULTS

DROP TESTS

Variable #1

TEST INFORMATION		TEST CRITERIA
TEST CONTENTS:	Methanol/Water Solution (0.964 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.:	-18.5°C (-1.3°F)	
DROP HEIGHT:	1.5 Meters (60") (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. Slight deformation at impact corner.	PASS: No leakage. Slight deformation at impact corner.

*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

Variable #2

TEST INFORMATION		TEST CRITERIA
TEST CONTENTS:	Methanol/Water Solution (0.964 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.:	-18.5°C (-1.3°F)	
DROP HEIGHT:	1.5 Meters (60") (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. Slight deformation at impact corner.	PASS: No leakage. Slight deformation at impact corner.

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

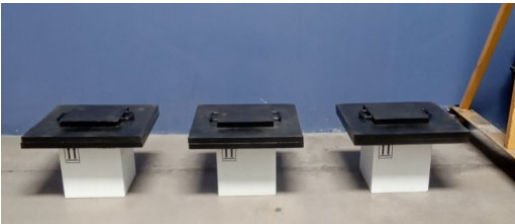
**Flat on bottom drop sample was also used for the top corner drop.

STACKING TEST

Variable #1

TEST INFORMATION		TEST CRITERIA
TEST CONTENTS:	Empty	<ul style="list-style-type: none"> 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. <p>(§178.606)</p>
SAMPLE PREPARATION:	Refer to Section II	
CONDITIONING:	Ambient	
TEST LOAD APPLIED:	204.1 Kg (450.0 Lbs.) (Refer to Section IV)	
TEST DURATION:	24 Hours	
TEST EQUIPMENT:	Dead Load Weights	

STACKING TEST SET-UP & RESULTS

	Sample #	Maximum Deflection After 24 Hours	Results
	9	1/16"	PASS
	10	0"	PASS
	11	1/16"	PASS

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

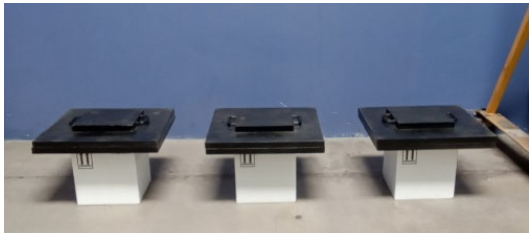
Stacking Stability: Not conducted; required only for guided load tests.

STACKING TEST

Variable #2

TEST INFORMATION		TEST CRITERIA
TEST CONTENTS:	Empty	<ul style="list-style-type: none"> 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. <p>(§178.606)</p>
SAMPLE PREPARATION:	Refer to Section II	
CONDITIONING:	Ambient	
TEST LOAD APPLIED:	204.1 Kg (450.0 Lbs.) (Refer to Section IV)	
TEST DURATION:	24 Hours	
TEST EQUIPMENT:	Dead Load Weights	

STACKING TEST SET-UP & RESULTS

	Sample #	Maximum Deflection After 24 Hours	Results
	20	1/16"	PASS
	21	0"	PASS
	22	1/16"	PASS

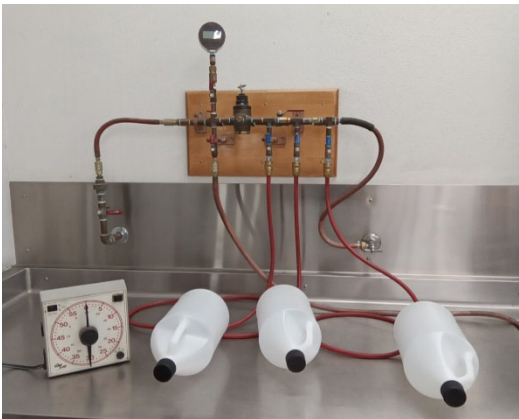

Comments/Observations: Following the 24-hour stack test, there was no damage likely to affect the performance of the packaging.

Stacking Stability: Not conducted; required only for guided load tests.

PRESSURE DIFFERENTIAL TEST

TEST INFORMATION		TEST CRITERIA
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. <p>(§173.27(c))</p>
WATER TEMPERATURE:	22.2°C (72.1°F)	
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 #: 1 Digital Pressure Gauge #: W605	

HYDROSTATIC PRESSURE TEST SET-UP AND RESULTS


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

VIBRATION TEST

Variable #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:	3.7 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
	6	PASS	No leakage or damage.
	7	PASS	
	8	PASS	

VIBRATION TEST

Variable #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:	3.7 Hz	
TEST DURATION:	1 Hour	
TEST EQUIPMENT:	Vertical motion using L.A.B. Palletizer Vibration System	

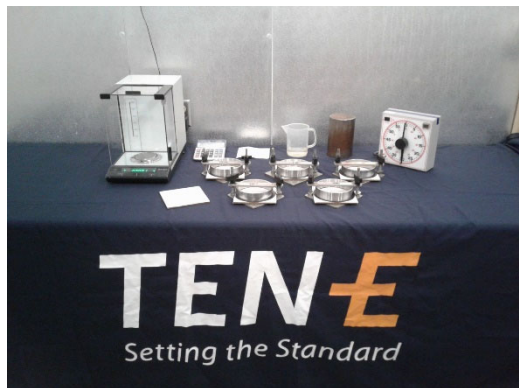
VIBRATION TEST SET-UP AND RESULTS

	Sample #	Results	Comments/Observations
	17	PASS	No leakage or damage.
	18	PASS	
	19	PASS	

COBB WATER ABSORPTION TEST

TEST INFORMATION	TEST CRITERIA
NUMBER OF SAMPLES: 5 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	<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)

COBB WATER ABSORPTION TEST RESULTS

REPRESENTATIVE SET-UP PHOTO	Sample #	Water Absorbed
	1	105.0 g/m ²
	2	113.0 g/m ²
	3	117.0 g/m ²
	4	112.0 g/m ²
	5	116.0 g/m ²
	AVERAGE:	112.6 g/m²
	RESULT	PASS

REGULATORY AND INDUSTRY STANDARD REFERENCES

REGULATORY REFERENCES

TEST	49 CFR ^①	UN ^②	IMDG ^③	ICAO ^④	IATA ^⑤
	October 2024 Edition	23 rd Edition	2024 Edition	2025-2026 Edition	66 th 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 & 4;1.1.4	5.0.2.7
Cobb:	178.516(b)(1)	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 100-185

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 Good by Air (ICAO)

⑤ International Air Transport Association (IATA) Dangerous Goods Regulations

INDUSTRY STANDARD REFERENCES

Drop:	ASTM ^⑥ D5276:	Standard Test Method for Drop Test of Loaded Containers by Free Fall
	ASTM ^⑥ D7790:	Standard Test Method for the Preparation of Plastic Packagings Containing Liquids for United Nations (UN) Drop Testing
	ISO ^⑦ 2248:	Packaging – Complete, Filled Transport Packages – Vertical Impact Test by Dropping
Stacking:	ASTM ^⑥ D8409:	Standard Guide for Conducting Stacking Tests on UN Packagings Using Guided or Unguided Loads
	ASTM ^⑥ D4577:	Standard Test Method for Compression Resistance of a Container Under Constant Load
	ISO ^⑦ 2234:	Packaging – Complete, Filled Transport Packages – Stacking Test using Static Load
Hydrostatic Pressure:	ASTM ^⑥ D7660:	Standard Guide for Conducting Internal Pressure Tests on United Nations (UN) Packagings
Vibration:	ASTM ^⑥ D999:	Standard Test Method for Vibration Testing of Shipping Containers
	ISO ^⑦ 2247:	Packaging – Complete, Filled Transport Packages – Vibration Test at Fixed Low Frequency
Cobb:	ISO ^⑦ 535:	Paper and Board – Determination of Water Absorption – Cobb Method

⑥ American Society for Testing and Materials (ASTM)

⑦ 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.



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SECTION IV: MATHEMATICAL CALCULATIONS**INFORMATION USED FOR CALCULATIONS**

Overall Packaging Tare Weight (PTW):	1,408.0 Grams	
Overflow Capacity (OFC):		Methanol/Water
Methanol/Water	3,754.0 Grams	SG: 0.964
Water	3,927.0 Grams	
Number of Inner Packagings (# IP):	4	
Packing Group	II	
Product Specific Gravity (PSG):	1.500	
Packing Group Multiplication Factor (MF):	1.00	
Overall Height of one Package (OH):	13.88 Inches	
Stack Test-# of Samples Tested Simultaneously:	0	

98% OF OVERFLOW

Overflow Capacity (OFC) x 98%

OFC	x	98%		
3,754.0	x	98% =	3,679.0 Grams	Methanol/Water
3,927.0	x	98% =	3,848.5 Grams	Water

PACKAGE TEST WEIGHTS

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

PTW	+	(98% OFC)	x	# IP)	
1,408.0	+	3,679.0	x	4	Methanol/Water
1,408.0	+	3,848.5	x	4	Water
Methanol/Water:		16.1	kg	35.4	lb
Water:		16.8	kg	37.0	lb

AUTHORIZED PACKAGE GROSS MASS CALCULATION (APGM)

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

PTW	+	(PSG)	x	98% OFC	x	# IP)
1,408.0	+	1.5	x	3,848.5	x	4
		24.4	kg	53.7	lb	

DROP HEIGHT

Calculation For Product Specific Gravities Exceeding 1.2
Product Specific Gravity (PSG) x Packing Group Multiplication Factor (MF)

PSG	x	MF	Packing Group: II		
1.5	x	1.00	Required Drop Height		Actual Drop Height
		1.50	Meter	59.1 Inches	60 Inches

STACKING TEST MINIMUM LOAD CALCULATIONS

Number of Packages in a 3m High Stack (118.2 / Overall Pkg Height (OH) -1)

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

(118.2	/	OH)	-1	=	# 3m HS
118.2	/	13.88	-1	=	7.6

Stacking Test Load Calculation (Individual Package)

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

APGM	x	# 3m HS		
24.4	x	7.6		
			185.5 kg	409.0 lb