

**UNITED NATIONS / DOT
PERFORMANCE CERTIFICATION**



4G DESIGN QUALIFICATION

**HMS-63243: 1 x 20 Liter Cubitainer Packaging
with and without Hand Holes**

TEST REPORT #: 20-MN20246

Ⓢ 4G / Y32.6 / S / **
n USA / +AA9711

**Insert the year packaging is manufactured

TESTING PERFORMED FOR:

BERLIN PACKAGING
2300 Sweeney Drive
Clinton, PA 15026

ATTN: Byran Delvalle

TESTING PERFORMED BY:

TEN-E PACKAGING SERVICES, INC.
1666 County Road 74
Newport, MN 55055
Phone: 651-459-0671
Fax: 651-459-1430

July 10, 2020

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NOTES AND COMMENTS

Testing of this design covers the following Berlin Packaging kits:

- | | | |
|-------------------|--------------------------|-------------------------|
| 1. COR-H821963253 | 2. COR-H821963254 | 3. COR-H81963243 |
| 4. COR-H81963255 | 5. COR-H821963252 (10 L) | 6. COR-H81963242 (10 L) |
| 7. HMS-63253 | 8. HMS-63253D | 9. HMS-63254 |
| 10. HMS-63243 | 11. HMS-63255 | 12. HMS-63252A |
| 13. HMS-63252 | 14. HMS-63252D | 15. HMS-63242 |

Below is the UN certification mark and gross mass limitation for HMS-63242 (1 x 10 liter cubitainer packaging) that can be used under this report (20-MN20246) provided that the provisions found in Section 178.601 (g) – Selective Testing Variations 1 & 4 have been met.


 4G / Y16.5 / S / **
 USA / +AA9711

The end user is responsible for confirming with Berlin Packaging or may elect to conduct their own pressure test to document the inner packagings they are using are capable of meeting the applicable regulatory requirements.


This report is being issued as a design qualification due to testing shippers with and without hand holes per the request of Berlin Packaging from the most recent design qualification report (18-MN20275). This design will retain the +AA9711 certification.

SECTION I: CERTIFICATION

**Design Qualification of the Berlin Packaging
 HMS-63243: 1 x 20 Liter Cubitainer Packaging with and without Hand Holes**

TEN-E Packaging Services, Inc. is a current DOT UN Third-Party Certification Agency under §107.403 and certifies that the **Berlin Packaging** design 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 (NK)	178.603	1.5 m	Methanol/Water Solution	July 1, 2020	PASS
Drop (MW)	178.603	1.5 m	Methanol/Water Solution	July 1, 2020	PASS
Stacking (NK)	178.606	317.5 Kg – 24 Hours	Water	July 9, 2020	PASS
Stacking (MW)	178.606	317.5 Kg – 24 Hours	Water	July 10, 2020	PASS
Pressure	173.27	---	Refer to note on page 2		---
Vibration	178.608	4.0 Hz – 1 Hour	Water	July 7, 2020	PASS
Cobb (NK)	178.516	30 Minutes	---	July 8, 2020	PASS
Cobb (MW)	178.516	30 Minutes	---	May 19, 2020	PASS
TEST REPORT NUMBER:	20-MN20246				
UN MARKING: (CFR 49 – 178.503)	 4G / Y32.6 / S / ** USA / +AA9711				
PACKAGING IDENTIFICATION CODE:	4G - Fiberboard Box (178.516)				
PERFORMANCE STANDARD:	Y (Packaging meets Packing Group II and III tests)				
AUTHORIZED GROSS MASS:	32.6 Kg (71.8 Lbs.)				
"S" DESIGNATION:	Denotes Inner Packagings				
YEAR OF MANUFACTURE:	** Insert year the packaging is manufactured				
STATE AUTHORIZING THE MARK:	USA				
PACKAGING CERTIFICATION AGENCY:	(AA) TEN-E Packaging Services, Inc. (Newport, MN CAA #2006030022)				
THIRD PARTY PACKAGING IDENTIFICATION:	+AA9711				
PERIODIC RETEST DATE:	July 10, 2022				

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 **Berlin Packaging** for services rendered. In the event of future changes to the above referenced test standards, it is the responsibility of **Berlin Packaging** 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:

Berlin Packaging
 2300 Sweeney Drive
 Clinton, PA 15026



Brad Voeller
 Packaging Engineer
 TEN-E Packaging Services, Inc.
 1666 County Road 74
 Newport, MN 55055

APPENDIX A: MANUFACTURER'S CLOSURE INSTRUCTIONS

 <p>DANGEROUS GOODS A DIVISION OF BERLIN PACKAGING</p>	<p>Catalog # HMS-63243</p>
<p>1 x 20 Liter Cubitainer Packaging</p>	
<p style="text-align: center;">Closing Instructions</p> <ol style="list-style-type: none"> 1. Construct carton and seal bottom flaps with TECHNOMELT 8990 Hot Melt Adhesive. Outer flaps should meet in the center 2. Place die-cut corrugated perimeter liner into carton 3. Place cubitainer into carton 4. Close cubitainer tightly using 25 in-lb. application torque. 5. Seal top flaps with TECHNOMELT 8990 Hot Melt Adhesive. Outer flaps should meet in the center 6. Place friction fit dust closure over cap (snaps into die cut opening into carton) 7. Insert plastic handle into top of shipper cut outs 	
<p>Disclaimer:</p>	
<p>These closing instructions are provided per 49 CFR 178.2(c). They may only be used for this packaging, manufactured by Dangerous Goods, a Division of Berlin Packaging. Other manufacturers' closing instructions do not apply to this package.</p>	
<p>PA Warehouse: 2300 Sweeney Drive, Clinton, PA 15026</p>	<p>800.413.8867 BerlinDangerousGoods.com</p>

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