

C1443-1 for details.

Number per Package : Twelve (4x3 arrangement)

UN Test Report Number : 50709

TEST PROCEDURES and RESULTS

Preparation of Packagings for Testing
(U.N. Orange Book 9.7.3 , HM - 181 178.602)

Each Inner receptacle was filled with : water

Total Gross Mass Weight = 5.6 lbs. / 2.5 kg
Tare Weight (packaging, including receptacles) = 3.4 lb.
Net " product " Weight (liquid or solid) = 2.2 lbs.

The fiberboard outer packaging was conditioned at 73 ° F and 50 % Relative Humidity for 24 hours

Special preparation of plastic inside containers at 0 ° F performed ? n/a

Drop Test (U.N. Orange Book 9.7.3 , HM - 181 178.603)

Number of drops **5** , Height of drops 72" , Packing Group I , Great **Danger Level**

Test Results :	1st drop , flat on bottom	PASSED
	2nd drop , flat on top	PASSED
	3rd drop , flat on long side	PASSED
	4th drop , flat on short side	PASSED
	5th drop , bottom corner	PASSED

Comments : No leaks occurred from any inner receptacle
The outer fiberboard container did not exhibit any damage liable to affect safety during transit

Stacking Test (U.N. Orange Book 9.7.6 , HM - 181 178.606)

(3 - empty) samples were subjected to a weight of 400 **Lbs.** which is equal to or greater than identical packages of the same weight stacked to the height of 3 meters (9.84 feet) 24 hours.

Test Results :	Sample # 1	PASSED	.24"	Deflection
	Sample # 2	PASSED	.24 "	Deflection
	Sample # 3	PASSED	.24 "	Deflection

Comments : No rupture , leaking , or deformation occurred

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TEST PROCEDURES and RESULTS

Cobb Test (U.N. Orange Book 9.6.11.1 , HM -181 178.516)
Quantity of (5) 5" x 5" square samples from outside shipping container

Water absorbed	1)	135 g/m²
	2)	131 g/m²
	3)	134 g/m²
	4)	130 g/m²
	5)	133 g/m²

Mass increase can not exceed 155 g/m² after a 30 minute testing period

Vibration Test (HM - 181 178.608)

(3) samples were tested for a **60 minute duration @ 200 Cycles Per Minute**
Frequency

Mechanical Rotary Motion with a 1 " peak to peak Amplitude

Comments : Container and contents were not affected by the vibrations , no leakage of contents

TESTING EQUIPMENT used during the Performance Testing

Gaynes-Vibration tester # 1250
Gaynes-Drop tester # DT-125
Testing Machines Inc. Compression tester # 17-37 with a 50,000 lbs. Capacity
Testing Machines Inc. Cobb tester
GBC Temperature and Humidity Chamber
A&D Electronic Balance # EK-120 A

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RAK Testing, LLC certifies that the previously described testing services have been performed in accordance with standard good laboratory practices . The packaging tested has **PASSED** the standards of the United Nations Transport of Dangerous Goods HM - 181 and the Department of Transportation Title 49 CFR in accordance with recommendations for UN packaging , Code 4G , Fiberboard Boxes , Combination Type Packages , **Packing Group I**, Great Danger Level Hazardous Materials with overall gross weight not exceeding 2.5 Kg for a **Quantity of (twelve) 4.7 ounce aerosol cans with closures.**

In the event that any changes are made to the use classification assumed as a basis for these test or to any part of this combination package , such as a different inner container , a different closure method or any other variation , these test results will be deemed invalid and are not to be relied upon .

RAK Testing, LLC does not perform Internal Pressure (Hydraulic) test or compatability test on inside containers . These test if needed should be performed by your inside container supplier .

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 RAK Testing, LLC LIABILITY EXCEED THE AMOUNT PAID BY THE CUSTOMER FOR TESTING SERVICES.

The appropriate certification markings to be displayed on the outside of the fiberboard container :
(Lower case "un" letters circled)

u 4G/X2.5/S/09
i.e., 09

** Last two digits of date of manufacture of fiberboard box,

n USA / M5787

Re-Testing **MUST** be scheduled before 24 month anniversary from the last testing date .

Date Tested : 5-6 through 5-7-09
: 50709

UN Test Report Number

Tested for : Company : A-Kobak Container
 Address : 1701 West 130th St.
 City : Hinckley
 State : OH
 Zip : 44233
 Phone : 330.225.7791 Jerry Dolph

Test Performed by : RAK Testing, LLC
 777 3rd NW
 Massillon , Ohio 44648
 Phone : 740-624-1314
 Richard Kovaleski, CPLT