

UN-DESIGN CERTIFICATION/PERIODIC RETEST

File Number # 13-21

Original File # 108-08

This is to certify that the packaging: **0300-E0UDE23NRG**

TYPE: **30 Gallon Vanguard OH**

PACKING GROUP **II**

Product Description							
Product Description		Height	Diameter	Product Weight (kg)			
30 Gallon Vanguard OH		min.(± 6mm)	max.(± 6mm)				
Wall Thickness (±0.7mm)		762	488	Total Product Weight		6.89	
average	min.			max.	Body	5.31	Bung Lid 0.68
3.7	2.2			5.0	Plugs	N/A	Ring 0.90
Closure Part #		Gasket Part #	Gasket Composition	Torque (ft.lbs.)	Closure Description		
Lid	V18-B-RC23(81680005)	N/A	Rubber/Urethane	2"-20 - 3/4" 9	18" Bung Lid 30/35		
Ring	L18-18-P-TL-V1(80910002)	N/A	N/A	N/A	18.5" Leverlock Closing Ring 30/35		
Process - Blow Molding							
Resin Specifications							
Resin	Supplier	Part #	HLMI		Density		
High Density Polyethylene(HDPE)		80100001	Value	Range	Value	Range	
			N/A	4.5 - 6.5	N/A	0.952 - 0.956	

UN CODE: **1H2**

UN MARKING:



1H2/Y180/S/YR/USA/MXXXX

Manufacturer MAUSER Packaging Solutions:

M4232 Addison M4235 Woodlands M4602 Rancho Cucamonga

M4895-M5445 East Brunswick M5123 Charlotte

Product Image



Tested to the following: **49 CFR § 178.601(c)(2)**

DROP TEST: (§178.603) From a height of **1.2 m (3.9 ft)** with six 6" samples at -18°C.
 Test Liquid: 50% aqueous Propylene Glycol s.g. 1.05 ±0.02. Test Solid sand, regrind, weights <0.05 mm+ HDPE < 3mm
 *3 samples dropped on weakest diagonal orientation and 3 samples flat dropped along the parting seam
RESULTS: PASS

STACK TEST: (178.606) (c)(2)(ii) Applied a preload of 50 lbs. Compression speed of 0.5 ±0.25 inches per minute.

RESULTS: **PASS** DOT min. **796 Kg** Force Applied

Sample #	Load Kg	Deflection (in.)
7	800	0.3750
8	800	0.3750
9	800	0.3750

VIBRATION TEST: (178.608) Simulated transport vibration for 1 hour on 3 samples **N/A** Hz

RESULTS: **N/A** **0300-E0UDE23RG is capable of passing the Vibration Test in section 178.608.**

CAPACITY: 121 Liters

OVERFLOW: 121.12 Liters

TIP OVER TEST (OH): **PASS**

Signature	Date	Signature	Date
<i>Darwin Wickes</i>	1/15/2021	<i>Tatiana Smedeen</i>	1/15/2021
Title	Manager-Technical Services	Title	Manager-Regulatory & Testing

EXPIRATION DATE: 1/15/2022