

UN-DESIGN CERTIFICATION/PERIODIC RETEST

File Number # 112-25

Original File # 28-08

This is to certify that the packaging: **03004E0UDE23NRG**

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)		781	432	Total Product Weight 6.80		
average	min.			max.	Body	5.40
4.0	2.2			5.0	Plugs	0
Closure Part #		Gasket Part #	Gasket Composition	Torque (ft.lbs.)	Closure Description	
<i>Plug 1</i>	81630002	81400014	EPDM	20	2" NPS HDPE Plug	
<i>Plug 2</i>	81630022	C31EP-AD	EPDM	9	3/4" NPT HDPE Plug	
<i>Lid</i>	81680008	N/A	Urethane	NA	18.5" Nat Bung Lid 30/35	
<i>Ring</i>	80910002	N/A	N/A	N/A	18.5" 18 Ga Leverlock Closing Ring 30/35	
Process - Blow Molding						
Resin Specifications						
Resin		Part #	HLMI		Density	
High Density Polyethylene(HDPE)		80100001	Value	Range	Value	
			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 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. **765 kg** Force Applied

Sample #	Applied load (kg)	Deflection (in.)
7	2215	0.975
8	2221	0.975
9	2385	0.975

VIBRATION TEST: (§178.608) Simulated transport vibration for 1 hour on 3 samples

RESULTS: **PASS** **Capable of passing vibration test as outlined in §178.608** **NA** Hz

CAPACITY: 119.0 Liters

OVERFLOW: 121.0 Liters

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

Signature	Date
<i>Tatiana Smoldeeva</i>	2/17/2025
Title	Director, Regulatory & Testing

EXPIRATION DATE: 2/17/2026