

**UN-DESIGN CERTIFICATION/PERIODIC RETEST**

File Number # 13-20

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)					
<b>Wall Thickness (±0.7mm)</b>		762	488	Total Product Weight		6.95		
average	min.			max.	Body	5.37	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	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
Color #	80200012	Color wt%	1.0%		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. **792 Kg**                      Force Applied

Sample #	Load Kg	Deflection (in.)
7	794	0.3125
8	794	0.3125
9	794	0.4375

**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:** 122.46 Liters

**OVERFLOW:** 122.53 Liters

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

Signature	Date	Signature	Date
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<b>Title</b>	Manager-Technical Services	<b>Title</b>	Manager-Regulatory & Testing

**EXPIRATION DATE:** 1/13/2021