

UN-DESIGN CERTIFICATION/PERIODIC RETEST

File Number # **12-21**

Original File # **80-06**

This is to certify that the packaging: **05704E0UDE23RG**

TYPE: **57 Gallon Vanguard OH**

PACKING GROUP II

Product Description								
Product Description		Height	Diameter	Product Weight (kg)				
57 Gallon Vanguard OH		min.(± 6mm)	max.(± 6mm)					
Wall Thickness (±0.7mm)		923	572	Total Product Weight		10.67		
average	min.			max.	Body	8.45	Bung Lid	1.04
4.0	2.2			5.0	Plugs	0.09	Ring	1.09
Closure Part #		Gasket Part #	Gasket Composition	Torque (ft.lbs.)	Closure Description			
Plug 1	L16-WL(81630002)	81400014	EPDM	20	2" NPS HDPE Plug			
Plug 2	C34-AD(81630022)	C31EP-AD	EPDM	6	3/4" NPS Plug			
Lid	81680021	N/A	Rubber/Urethane	N/A	CVR 22.5 55/57 Blk Bung Lid			
Ring	L22-18-P-TL V1-F(80910017)		N/A	N/A	22.5" Leverlock Closing Ring			
Process - Blow Molding								
Resin Specifications								
Resin	Supplier	Part #	HLMI		Density			
High Density Polyethylene(HDPE)		80100001	Value	Range	Value	Range		
			5.0	4.5 - 6.5	0.955	0.952 - 0.956		

UN CODE: 1H2

UN MARKING:

1H2/Y250/S/YR/USA/MXXXX

Manufacturer MAUSER Packaging Solutions:

M4232 Addison M4235 Woodlands M4602 Rancho Cucamonga

M4895-M5445 East Brunswick **M5123 Charlotte**

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: sodium bicarbonate <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 50lbs. Compression speed of 0.5 ± 0.25 inches per minute.

RESULTS: **PASS** DOT min. **855 Kg** Force Applied

Sample	Load Kg	Deflection in.
7	860	0.3125
8	860	0.3750
9	860	0.3125

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

RESULTS: **N/A**

CAPACITY: 225.28 Liters

OVERFLOW: 225.32 Liters

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

Product Image



Signature		Date	Signature		Date
		1/15/2021			1/15/2021
Title	Manager-Technical Services	Title	Manager Regulatory & Testing		

EXPIRATION DATE: 1/15/2022