

**UN-DESIGN CERTIFICATION/ PERIODIC RETEST**

File Number # 118-25

Original File# 26-07

This is to certify that the packaging: **055C-00UL1**

TYPE: **55 Gallon L-1 TH**

PACKING GROUP II

| Product Description            |                         |                 |               |                    |                      |                           |             |
|--------------------------------|-------------------------|-----------------|---------------|--------------------|----------------------|---------------------------|-------------|
| Product Description            |                         |                 | Height        | Diameter           | Product Weight (kg)  |                           |             |
| 55 Gallon L-1 TH               |                         |                 | min.(± 6mm)   | max.(± 6mm)        | Total Product Weight |                           |             |
| <b>Wall Thickness (±0.7mm)</b> |                         |                 | <b>889</b>    | <b>597</b>         | Body                 |                           | <b>9.53</b> |
| average                        | min.                    | max.            |               |                    | Lid                  | <b>N/A</b>                |             |
| <b>3.7</b>                     | <b>2.2</b>              | <b>6.4</b>      |               |                    | Plugs                | <b>0.08</b>               |             |
| Closure Part #                 |                         |                 | Gasket Part # | Gasket Composition | Torque (ft.lbs.)     | Ring                      |             |
| Plug 1                         | <b>L10-WL(81630001)</b> | <b>81400008</b> |               | EPDM               | 25                   | 2" HDPE American Buttress |             |
| Plug 2                         | <b>L16-WL(81630002)</b> | <b>81400014</b> |               | EPDM               | 25                   | 2" HDPE NPS Plug          |             |

| Process - Blow Molding           |          |       |           |         |               |
|----------------------------------|----------|-------|-----------|---------|---------------|
| Resin Specifications             |          |       |           |         |               |
| Resin                            | 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: 1H1

UN MARKING:



1H1/Y1.9/100/YR/USA/MXXXX

Manufacturer Mauser Packaging Solutions:

M4232 Addison      M4235 Woodlands      M4602 Rancho Cucamonga

M4895 East Brunswick      M5123 Charlotte

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

**DROP TEST: (§178.603)** From a height of **1.9 m (6.2 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**

**LEAK TEST: (§178.604)(d)** Packaging **group II** test pressure **of 20 kPa** for 5 min on 3 samples

RESULTS: **PASS**

**HYDROSTATIC TEST: (§178.605)** Using a pressure of > **100 kPa (14.50 psi)** for 30 minutes on 3 samples

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. **1507 kg** Force Applied

| Sample # | Applied Load (kg) | Deflection (in) |
|----------|-------------------|-----------------|
| 10       | 1500              | 0.314           |
| 11       | 1500              | 0.368           |
| 12       | 1500              | 0.346           |

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

**N/A** Hz

RESULTS: **N/A** Capable of passing vibration test as outlined in 178.608

**CAPACITY:** 222.58 Liters

**OVERFLOW:** 223.34 Liters

**TIP OVER TEST (OH):** N/A

|                         |                                |
|-------------------------|--------------------------------|
| Signature               | Date                           |
| <i>Tahanna Smedeeva</i> | 6/3/2025                       |
| Title                   | Director, Regulatory & Testing |

**EXPIRATION DATE:** 6/3/2026

