



UN PERFORMANCE TESTING REPORT



Date of Testing 07/29/11 Report # 26
Design Number 30G1A1/Y1.8/250

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DESIGN TYPE: 30 GALLON CLOSED HEAD STEEL DRUM (2 X 3/4" TRISURE BUNGS IN HEAD / BUNA OR POLY GASKET)

- ORIGINAL MANUFACTURING SPECIFICATIONS: UN1A1/Y1.8/250
 - THICKNESS OF METAL IN HEADS: .9 mm (20 ga.)
 - THICKNESS OF METAL IN SIDEWALL: .9 mm (20 ga.)
 - LAP WELD
 - CHIME: TRIPLE SEAM
 - TARE WEIGHT (WITH RING AND COVER): 24 LBS
 - OPEN HEAD COVER GASKET, IF APPLICABLE: NA
 - CLOSING MECHANISM, IF APPLICABLE: NA
- OVERALL HEIGHT: 28 3/4"
 - INSIDE HEIGHT: 27 3/4"
 - INSIDE DIAMETER: 18 1/8"
 - OUTSIDE DIAMETER: 18 3/4"
 - RATED CAPACITY: 30 GALLONS
 - MAXIMUM CAPACITY: 31.4 GALLONS

REMARKS: SEE DRUM CLOSURE NOTIFICATION, TIGHTEN BUNGS TO RECOMMENDED TORQUE

DROP TEST (178.603)

Six samples are filled to > = 98 % of overflow capacity with liquid. Each sample is dropped from the indicated height onto a solid surface using various attitudes. Drums are vented after each drop. Weakest Part: for tight head drums, second drop will be flat on side seam. For open-head drums, second drop is diagonal on head at bolt ring closure.

- DROP TEST HEIGHT: 70.86 inches (1.8 m)
- DRUMS FILLED WITH: WATER
- DROP TEST SAMPLE DRUM WEIGHT: 284 LBS. (129 kilograms)

DROP TEST RESULTS: DROPPED DIAGONALLY ON TOP RIM AT LARGE BUNG DROPPED HORIZONTAL ON SIDE SEAM

SAMPLE 1 – PASSED	SAMPLE 1 - PASSED
SAMPLE 2 – PASSED	SAMPLE 2 - PASSED
SAMPLE 3 – PASSED	SAMPLE 3 - PASSED

LEAKPROOFNESS TEST (178.604)

These samples with all closures in place are subjected to the following internal pressure restrained under water for a minimum of five minutes.

- LEAKPROOFNESS TEST PRESSURE, IF APPLICABLE: 20 kpa (3 psi.) @ 5 MINUTES; DRUM ASSEMBLED
- LEAKPROOFNESS TEST RESULTS: SAMPLE 1 – PASSED, SAMPLE 2 – PASSED, SAMPLE 3 – PASSED

HYDROSTATIC TEST (178.605)

Three sample drums are filled to overflow capacity with water. With all closures in place, samples are subjected to the following internal hydrostatic pressure for a minimum of five minutes.

- HYDROSTATIC TEST PRESSURE IN kpa , IF APPLICABLE: 250 kpa (36.3 psi) at 5 minutes
- HYDROSTATIC TEST RESULTS (3 SAMPLES): SAMPLE 1 – PASSED, SAMPLE 2 – PASSED, SAMPLE 3 – PASSED

STACKING TEST (178.606)

Three sample drums are filled to >= 98% of overflow capacity and subjected to a force applied to the top surface of drum for a minimum of 24 hours equal to the total weight of identical packages which may be stacked on it during transport or storage. Minimum stack height is 3 meters.

- STACKING TEST HEIGHT : ON FLOOR WITH DEAD LOAD (STEEL) OF 1136 LBS. FOR 24 HOURS
- STACKING TEST RESULTS (3 SAMPLES) SAMPLE 1 – PASSED, SAMPLE 2 – PASSED, SAMPLE 3 – PASSED

MARKINGS AUTHORIZED: UN1A1/Y1.8/250

TYPE (e.g., 1A1, 1A2): 1A1

PACKING GROUP (X, Y, OR Z): Y

RELATIVE DENSITY FOR LIQUIDS, IF APPLICABLE: 1.8

GROSS MASS FOR SOLIDS, IF APPLICABLE: NA

HYDROSTATIC TEST PRESSURE (IN kpa), IF APPLICABLE: 250 kpa

AUTHORIZED TESTING REPRESENTATIVE