

**UN Third Party Packaging Certification Agency
Detailed Requirements by Package Type**

**Packagings certified as conforming to:
§ 178.504 Standards for steel drums.
§ 178.505 Standards for aluminum drums.
§ 178.506 Standards for metal drums other than steel or aluminum.**

1) Specific test report requirements for metal drums:

- a) Gasket - materials of construction (if present)
 - i) Type of gasket material
 - ii) Thickness of gasket and configuration
- b) Diameter of drum, external
 - i) Maximum
 - ii) Minimum
- c) Height of drum
 - i) Overall
 - ii) Stacking
- d) Rolling hoops on drum
 - i) Number
 - ii) Location
 - iii) Height
- e) Seam type
 - i) End seam (Chime)
 - ii) Side seam;
- f) Handle(s) (if present)
 - i) Material
 - ii) Number
 - iii) Location
- g) Closure(s) including liner(s) (other than covers of removable head drums)
 - i) Material
 - ii) Number
 - iii) Location
 - iv) Design
 - (1) Thread type
 - (2) Thread style
 - (3) Thread pitch
 - v) Closure Diameter
 - vi) Closure Thickness
 - vii) Closure Weight
 - viii) Closure Liner
 - (1) Material
 - (2) Thickness
 - (3) Weight
- h) Cover and closure ring (removable head drums)
 - i) Style
 - ii) Material (including bolt if present)
 - iii) Dimensions (including bolt if present)
- i) Inner liner, lining or coating (if present)
 - i) Material
 - ii) Thickness
 - iii) Closing method (liner)

**Packagings certified as conforming to:
§ 178.507 Standards for plywood drums.**

1) Specific test report requirements for plywood drums:

- a) Number of plies
 - (1) Heads
 - (2) Body
- b) Gasket - materials of construction (if present)
 - i) Type of gasket material
 - ii) Thickness of gasket and configuration
- c) Diameter, external
 - i) Maximum;

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ii) Minimum;
d) Height
i) Overall;
ii) Stacking;
e) Closure(s) including liner(s) (other than covers of removable head drums)
i) Material
ii) Number;
iii) Location
iv) Design;
(1) Thread type
(2) Thread style
(3) Thread pitch
v) Closure Diameter
vi) Closure Thickness
vii) Closure Weight
viii) Closure Liner
(1) Material
(2) Thickness
(3) Weight
f) Cover and closure ring (removable head drums)
i) Style
ii) Material (including bolt if present)
iii) Dimensions (including bolt if present)
g) Inner liner, lining or coating (if present)
i) Material
ii) Thickness
iii) Mass
iv) Closing method (liner)

**Packagings certified as conforming to:
§ 178.508 Standards for fiber drums.**

1) Specific test report requirements for fiber drums:

a) Number of plies and material of each ply
i) Heads
ii) Body
b) Basis weight of fiber plies
c) Thickness of each ply and total thickness
(1) Minimum;
(2) Nominal
d) Gasket - materials of construction (if present)
i) Type of gasket material
ii) Thickness of gasket and configuration
e) Diameter, external
i) Maximum;
ii) Minimum;
f) Height
i) Overall;
ii) Stacking
g) Closure(s) including liner(s) (other than covers of removable head drums)
i) Material;
ii) Number;
iii) Location;
iv) Design;
(1) Thread type
(2) Thread style
(3) Thread pitch
v) Closure Diameter
vi) Closure Thickness
vii) Closure Weight;
viii) Closure Liner

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(1) Material
(2) Thickness
(3) Weight;
h) Cover and closure ring (removable head drums)
i) Style;
ii) Material (including bolt if present);
iii) Dimensions (including bolt if present);
i) Inner liner, lining or coating (if present)
i) Material;
ii) Thickness;
iii) Mass;
iv) Closing method (liner);

**Packagings certified as conforming to:
§ 178.509 Standards for plastic drums and jerricans.**

1) Specific test report requirements for plastic drums and jerricans:

a) Gasket - materials of construction (if present)
i) Type of gasket material;
ii) Thickness of gasket and configuration;
b) External Dimensions
i) Diameter, external
ii) Maximum;
iii) Minimum;
c) Body Section (non-round packages)
i) Length (Maximum and minimum);
ii) Width (Maximum and minimum).
d) Height
i) Overall;
ii) Stacking
e) Handle(s) (if present) material, number and location
f) Closure(s) including liner(s) (other than covers of removable head drums)
i) Material;
ii) Number;
iii) Location;
iv) Design;
(1) Thread type
(2) Thread style
(3) Thread pitch
v) Diameter;
vi) Thickness;
vii) Weight;
viii) Liner
(1) Material
(2) Thickness
(3) Weight
g) Cover and closure ring (removable head drums)
i) Style;
ii) Material (including bolt if present);
iii) Dimensions (including bolt if present);
h) Inner liner, lining or coating (if present)
i) Material;
ii) Thickness;
iii) Mass;
iv) Closing method (liner);

**Packagings certified as conforming to:
§ 178.511 Standards for aluminum and steel jerricans**

1) Specific test report requirements for metal jerricans:

a) Gasket - materials of construction (if present)
i) Type of gasket material;
ii) Thickness of gasket and configuration;

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b) Dimensions of jerrican, external
i) Length (Maximum and minimum);
ii) Width (Maximum and minimum).
c) Height of jerrican
i) Overall;
ii) Stacking;
d) Seam type
i) End seam (Chime);
ii) Side seam;
e) Handle(s) (if present)
i) Material;
ii) Number;
iii) Location;
f) Closure(s) including liner(s) (other than covers of removable head jerricans)
i) Material;
ii) Number;
iii) Location;
iv) Design;
(1) Thread type
(2) Thread style
(3) Thread pitch
v) Closure Diameter
vi) Closure Thickness
vii) Closure Weight;
viii) Closure Liner
(1) Material
(2) Thickness
(3) Weight
g) Cover and closure ring (removable head jerricans)
i) Style;
ii) Material (including bolt if present);
iii) Dimensions (including bolt if present);
h) Inner liner, lining or coating (if present)
i) Material;
ii) Thickness
iii) Closing method (liner)
Packagings certified as conforming to: § 178.512 Standards for steel or aluminum boxes
1) Specific test report requirements for steel or aluminum boxes:
a) Gasket - materials of construction (if present)
i) Type of gasket material;
ii) Thickness of gasket and configuration
b) Dimension external (L x W x H)
c) Dimension internal (L x W x H)
d) Stacking height
e) Handles, material type, number and position
f) Closures (Latches, etc.) number, type, position and materials
g) Closure Method
h) Liner or lining
i) Material;
ii) Thickness;
iii) Mass;
iv) Closing method
Packagings certified as conforming to: § 178.513 Standards for boxes of natural wood. § 178.514 Standards for plywood boxes. § 178.515 Standards for reconstituted wood boxes.
1) Specific test report requirements for boxes of natural wood:
a) Number of plies in base, body and lid Plywood only)

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b) Method of joining panels
c) Dimension external (L x W x H)
d) Dimension internal (L x W x H)
e) Stacking height
f) Handle(s) (if present)
i) Material;
ii) Number;
iii) Location;
g) Closures (latches, etc), number, type, position and materials
h) Closure Method
i) Liner (if present)
i) Material;
ii) Thickness;
iii) Mass;
iv) Closing method

**Packagings certified as conforming to:
§ 178.516 Standards for fiberboard boxes.**

1) Specific test report requirements for fiberboard boxes:

a) Box style
i) Number of walls – flute type
ii) Board caliper (nominal)
iii) Basis Weight of each liner and medium
iv) Combined board weight
b) Method of joining panels
i) Manufacturer's joint
(1) Flap size
(2) Location
c) Dimension external (L x W x H)
d) Dimension internal (L x W x H)
e) Top flap inner gap or meet.
f) Top flap outer overlap or meet.
g) Bottom flap inner gap or meet.
h) Bottom flap outer overlap or meet.
i) Stacking height (if different from box height).
j) Handles, material type, number and position
k) Closure method of box
l) Liner (if present)
i) Material;
ii) Thickness;
iii) Mass;
iv) Closing method;
m) Inner partitions (if present)
i) Material of construction
(1) Type and grade
ii) Number of walls – flute type
iii) Board caliper (nominal)
iv) Basis Weight of each liner and medium
v) Combined board weight
vi) Dimensions
(1) Length
(2) Width

**Packagings certified as conforming to:
§ 178.517 Standards for plastic boxes**

1) Specific test report requirements for plastic boxes:

i) Density
b) Gasket - materials of construction (if present)
i) Type of gasket material;
ii) Thickness of gasket and configuration;
c) Dimension external (L x W x H)

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d) Dimension internal (L x W x H)
e) Stacking height (if different from box height)
f) Handles, material type, number and position
g) Closures (latches, etc), number, type, position and materials
h) Closure Method
i) Liner or lining(if present)
i) Material;
ii) Thickness;
iii) Mass;
iv) Closing method;

**Packagings certified as conforming to:
§ 178.518 Standards for woven plastic bags.**

1) Specific test report requirements for woven plastic bags:

a) Fabric (warp/weft), tapes per 100 mm
b) Material strength elongation
c) Style of bag
d) Dimensions
i) Flat unopened
ii) Gusset, open width
iii) Bottom width, flat unopened
iv) Valve width
e) Closure method (top, base, side)
f) Sewing (if applicable)
i) Style and density of stitches
ii) Type of thread and minimum breaking load
g) Perforations
h) Adhesive, type
i) Coating or liner
i) Material type and grade
ii) Number of liner(s)
iii) Thickness
iv) Type of film grade
v) Grammage of plies

**Packagings certified as conforming to:
§ 178.519 Standards for plastic film bags.**

1) Specific test report Requirements for plastic film bags:

a) Style
b) Dimensions
i) Flat unopened
ii) Gusset, open width
iii) Bottom width, flat unopened
iv) Valve width
c) Closure method (top, base, side)
d) Number of plies
e) Material strength elongation

**Packagings certified as conforming to:
§ 178.520 Standards for textile bags.**

1) Specific test report Requirements for textile bags:

i) Material type and grade
b) Style
c) Dimensions
i) Flat unopened
ii) Gusset, open width
iii) Bottom width, flat unopened
iv) Valve width
d) Closure method (top, base, side)
e) Sewing style and threads per inch
f) Type of thread and breaking strength

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g) Coating
i) Material
ii) Thickness or weight
h) Liner
i) Number of plies
ii) Material
iii) Thickness

**Packagings certified as conforming to:
§ 178.521 Standards for paper bags.**

1) Specific test report Requirements for paper bags:

a) Number of plies
b) Basis weight of plies
c) Coating
i) Material
ii) Thickness or weight
d) Liner
i) Material
ii) Thickness
e) Style
f) Dimensions
i) Flat unopened
ii) Gusset, open width
iii) Bottom width, flat unopened
iv) Valve width
g) Closure method (top, base, side)
h) Glue type
i) Sewing style and threads per inch
j) Type of thread and breaking strength

Packagings certified as conforming to:

**§ 178.522 Standards for composite packagings with inner plastic receptacles.
§ 178.523 Standards for composite packagings with inner glass, porcelain, or stoneware receptacles.**

Specific test report Requirements for composite packagings:

- 1) The test report requirements for the outer package design type as indicated in the appropriate packaging section.
- 2) The test report requirements for the inner receptacle are as indicated in the inner packaging section.

Specific Test report requirements for inner packagings and inner receptacle(s):

a) Package type and style.
b) Material of construction;
i) Type and Grade;
ii) Thickness;
(1) Minimum;
(2) Nominal;
c) Materials of construction gasket, (if present)
i) Type of material;
ii) Thickness and configuration;
d) Method of construction;
e) Capacity
i) Nominal;
ii) Maximum;
f) Cross Sectional dimensions
i) Diameter, external
(1) Maximum;
(2) Minimum;
g) Body Section (non-round packages);
i) Length, Maximum and Minimum
ii) Width, Maximum and Minimum
h) Height
i) Handle(s) (if present) material, number and location
j) Closure(s) including liner(s)
i) Material;

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