

Testing of packaging drums



The drums are manufactured from various materials and come in variations with a removable or non-removable lid.

Our work is grounded in the authorisation of the Ministry of Transport and certification in transport packaging for dangerous goods and the relevant accreditation.

We perform on these kinds of tests:

a drop test, leak test, internal hydraulic pressure test by stacking, and vibration test according to US Code of Federal Regulation.

Marking

Categories based on international regulations are marked with the numeral 1 (drums), numeral 3 (canisters), each with the appropriate letter according to the material used.

Type of packaging	Material	Category of packaging	Code	Sub-section
1. Drums	A. Steel	non-removable lid	1A1	6.1.4.1
		removable lid	1A2	
	B. Aluminium	non-removable lid	1B1	6.1.4.2
		removable lid	1B2	
	D. Plywood		1D	6.1.4.5
	G. Cardboard		1G	6.1.4.7
	H. Plastic	non-removable lid	1H1	6.1.4.8
		removable lid	1H2	
N. Metal, other than steel or aluminium	non-removable lid	1N1	6.1.4.3	
	removable lid	1N2		
3. Cans	A. Steel	non-removable lid	3A1	6.1.4.4
		removable lid	3A2	
	B. Aluminium	non-removable lid	3B1	6.1.4.4
		removable lid	3B2	
	H. Plastic	non-removable lid	3H1	6.1.4.8
		removable lid	3H2	

What must the parameters be?

- The largest internal volume of drums: 450 litres (1D: 250 litres; 1H1 and 1H2: 450 litres; 3H1 and 3H2: 60 litres)
- Supreme clean (net) weight: 400 kg (1H1 and 1H2: 400 kg; 3H1 and 3H2: 120 kg)

Joints of the shell of steel drums, intended for the fulfillment of more than 40 l of liquid shall be welded. The joints of the shell of the drums, intended for solids or to fill a maximum of up to 40 l of liquid substances, must be mechanically lined or welded. The joints between the bases and the casing must be mechanically lined (upright) or welded. Stand-alone amplification hoops can be used.

The body of the drum with an internal volume greater than 60 l shall at least have pressed-out rolling hoops for rolling, or alternatively at least two separate rolling hoops. Tests must be carried out on the packaging prepared for shipment; it shall be filled to at least 98% of its highest internal volume, if it is liquid, and at least 95%, if solids.

If alternative liquid substances are used in the test fall, such substances must have similar relative density and viscosity as the substance that is transported. Under the specified conditions, water may be used for the fall test.

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