



## **IS 13997 : 2014 Drums, large open top**

**Steel drums**, particularly large open-top varieties, are essential for safely storing and transporting industrial materials. Governed by IS 13997:2014, these drums are designed with capacities of 200 liters, making them suitable for materials in bulk, especially those sensitive to environmental factors or requiring robust containment. They are typically constructed in two grades (Grade A and B) based on thickness and construction type. Both grades use cold-reduced carbon steel sheets, with the thickness for Grade A being 1.25 mm and 1.00 mm for Grade B. These drums feature welded seams for air-tightness, reinforced lids, and gasket-sealed closures to maintain integrity, protecting the contents from contamination and leakage. Such designs cater to industries requiring reliable storage, such as chemicals and petroleum.

High-quality large open-top steel drums should exhibit excellent durability, leak-proof construction, and resistance to rust or physical damage. Consumers expect them to have reinforced seams (double or triple) and tightly fitting lids, which ensure that materials remain secure under transport stresses. An effective gasket on the lid is essential, providing additional protection from leakage and contamination. The drum body, free from dents and rust, is expected to withstand mechanical stress while maintaining chemical compatibility with contents.

BIS Standards Mark with IS 13997:2014, reassuring consumers of the product's reliability. Proper labeling and legible markings identifying the manufacturer and drum grade also add to consumer confidence, ensuring traceability and adherence to manufacturing standards. Additionally, the drum's ability to resist leakage during a 1-hour water immersion test as per IS 13997 is a critical indicator of quality, demonstrating its reliability for safe material storage and transport.