



**ARIYAN INTERNATIONAL INC.**  
Briding Businesses Together

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# STANDARD SPECIFICATION OF IBC TOTE

## **OIL & GAS IBC CHARACTERISTICS:**

Intermediate Bulk Containers, also commonly called IBC containers or IBC totes, are one of today's most popular options for shipping liquid goods in bulk. These versatile containers consist of a high-density polyethylene "Bottle" that holds hundreds of gallons of liquid with a built-in tap system for easy dispensing, surrounded by a metal cage that protects the bottle and allows it to be moved by forklift.

Why are IBC Totes from Air Sea Containers so popular among shippers in all kinds of industries? The unique design of IBC containers gives them a variety of advantages that shippers love and makes great use in moving liquid goods around the world. We will look at six of the top benefits of IBC containers that place them among Air Sea Containers' most popular items.

## **BENEFITS OF USING IBC CONTAINERS:**

- IBC Containers are cost – effective.
- IBC Containers are versatile.
- IBC Containers are easy to handle.
- IBC Containers are reusable.
- IBC Containers are durable.
- IBC Containers can help reduce product waste.

Petrochemical IBC totes are consistent and reliable packaging containers engineered to be appropriate for wide-scale use. IBC's safeguard payloads against human and machine-based impact as well as environmental elements such as water, salt, heat, air, dust, and other potentially contaminating particulates. Concrete manufacturers often use products called admixtures and liquid color as parts of their processes. These products may be stored in 55-gallon IBC Tote tanks and must stay warm. Asphalt (Bitumen) manufacturers must maintain their asphalt's working temperatures between 200 °F–300 °F (90 °C–150 °C). Constant wattage heating cable for pipes and silicone rubber heating blankets for vessels help asphalt manufacturers maintain the required heating level. Additionally, there are often freeze protection issues which vary by facility, which can be solved with self-regulating heating cable or silicone rubber heating blankets.



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## **TRANSPORTATION AND STUFFING:**

Each 20ft. container can hold 18 IBC Totes (1/MT). This results in being more cost-effective for land and ocean freight. IBC materials and design produce heavy duty containers that become effective and essential company assets along logistic streams. Oil, gas and Bitumen IBCs are box-shaped with integrated pallet bases. This design allows for increased product handling, organization, and mobility.

IBC's base dimensions approximate around standard, international pallet sizes for acceptability. IBC's bulk volume capacities allow for more material to be moved more easily when compared against 55 gallon drums. A standard IBC maintains a footprint equal to a 4-drum pallet but with significantly more functionality.

Overall IBC engineering promotes simpler product filling and dispensing as well as loading, stacking, storing, and shipping of product containers. General operation spills, overflow, and waste are reduced due to the structure of the IBC tank, material inlets, and outlets. IBC's can be stacked for storage organization, gravity-feed operations, and can be integrated with various other systems through use of fittings, plumbing and other IBC components. IBC Totes have been engineered to withstand general application stresses, which includes internal pressure.

IBC Tanks provides the following selection of IBC containers that have been certified and approved for oil, gas and Bitumen-based applications.

## **APPLICATION:**

Asphalt (Bitumen) sealants are used to enhance and protect asphalt by filling cracks or sealing entire surfaces. Often they are kept in large IBC Tote tanks for bulk storage and/or transportation to a job site. They are typically thick and hard to extract from the IBC Tote tank through a hose or applicator without preheating. Preheating or keeping asphalt sealants warm reduces viscosity and makes them much easier to extract. Common application temperatures are around 125 °F (59 °C). In cooler environments or outdoors, it can be extremely difficult or nearly impossible to apply without pre-heating the material and keeping it warm.

## **SPECIFICATIONS:**

### **HIGH DENSITY POLYETHYLENE (HDPE) OIL, GAS AND BITUMEN IBC TANKS:**

High Density Polyethylene (HDPE) IBC Tote containers are fabricated from food grade, virgin resin that is FDA approved, BPA free, ANSI/NSF 61 certified, and manufactured with UV inhibitors to allow extended outdoor use and sun exposure.



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HDPE IBC tanks are light weight, less expensive alternatives to stainless and carbon steel containers but may not afford the same extensive service life as metal IBCs. They are provided in volume capacities ranging from 120 gallons to as high as 550 gallons with Megatainer IBCs, the largest poly Tote in the industry.

**IBC TANKS OFFERS THE FOLLOWING HDPE INTERMEDIATE BULK CONTAINERS (IBC) WITH THEIR MEASUREMENT:**

- IBC tanks have base dimensions near an internationally – accepted, most used, standard pallet dimension of 48" L x 40" W ⇒ Common Pallet Area: 13.3 SQ. FT.
- IBCs have a common base footprint around 45" L X 45" W ⇒ Common IBC Base Area: 14.06 SQ. FT
- Across IBC models and capacities, average tote area dimensions are: 45" L x 45" W x 50" H ⇒ Average IBC Total Area Volume: 58.59 CU. FT.

