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Cargo Tank Requirements and Specifications

MC-306 (DOT-406)

Non (low) pressure bulk liquid cargo tank

- MC 306–Maximum operating pressure of up to 3 psi
- DOT 406–Maximum operating pressure of up to 4 psi
- Oval or “egg” shaped cross section
- Flat or nearly flat ends
- Aluminum—primary material of construction
- Usually multi-compartmented
- Separate manhole for each compartment
- Emergency shutoff –drivers side front
- Rollover protection to prevent manholes from opening up on rollover
- Average maximum capacity–9,000 gallons

Contents:

NORMALLY—petroleum products, however, may be water or milk

MC-306 and DOT 406 tankers are elliptical when viewed from the rear. By far the most common product carried in them is gasoline or other flammable liquids. They usually have a heavy, built-up top that is hollowed out to contain small spills. These tankers have one or more domes and dome covers, generally one dome per compartment in the tank.



MC-307 (DOT-407)

Low-pressure bulk liquid cargo tank

- Pressure—up to 40 psi @ 70°F
- Horse shaped shaped cross section
- Flat or slightly rounded ends
- Stainless steel is primary material of construction
- May be insulated. Insulation may hide tank shape—may not appear to be horseshoe shaped
- Manway usually center (top) of tank
- Discharge valves usually center (bottom) of tank
- If multi-compartmented, will have a separate manhole for each compartment
- Emergency shutoff –drivers side front
- Rollover protection to prevent manholes from opening up on rollover, normally
 - center of tank top
- Average maximum capacity—6,000 gallons

Contents:

NORMALLY—mild acids, however, may be water, milk, or combustible liquids



MC-307/DOT 407 tankers are usually a horseshoe shape when viewed from the rear. They carry vegetable oils, syrups, and milk – and they also carry solvents, lubricants, mild corrosives, etc. The horseshoe shape tanks are insulated – the shape you see is the thin aluminum insulation shell cover. Some of these tankers are uninsulated, appear round with small ridges, and are usually unpainted aluminum if un-insulated. The domes in these tankers are usually in the center of the long axis of the tank, but can be multiples or in other locations.

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MC-312 (DOT-412)

Corrosives Cargo Tank

- Pressure—5 to 25 psi exterior strengthening (stiffener) rings often visible
- Lined tank—usually lined with rubber or plastic
- Round cross section
- Stainless steel is primary material of construction
- May be insulated, insulation may hide tank shape
- Manway usually rear (top) of tank
- Discharge valves usually rear (bottom) of tank
- If multi-compartmented, will have a separate manhole for each compartment
- Emergency shutoff –drivers side front
- Cigar shaped tank—long, small diameter
- Average maximum capacity—4,000 to 6,000 gallons

Contents:

Corrosives – High weight (specific gravity) liquids



