



## Standard Specification for Tanks, 5 and 10-Gal (20 and 40-L) Lube Oil Dispensing<sup>1</sup>

This standard is issued under the fixed designation F 670; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last approval. A superscript epsilon ( $\epsilon$ ) indicates an editorial change since the last revision or reapproval.

*This standard has been approved for use by agencies of the Department of Defense.*

### 1. Scope

1.1 This specification covers the material, dimensions, and construction of 5 and 10-gal (20 and 40-L) tanks purchased to store and dispense lubricating oils. The tanks are industrial safety cans mounted on a T-bar bracket, complete with drip tray. .

1.2 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

### 2. Referenced Documents

#### 2.1 ASTM Standards:

A 36/A36M Specification for Carbon Structural Steel<sup>2</sup>

A 108 Specification for Steel Bars, Carbon, Cold Finished, Standard Quality<sup>3</sup>

A 164 Specification for Electrodeposited Coatings of Zinc on Steel<sup>4</sup>

A 167 Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip<sup>5</sup>

A 308 Specification for Steel Sheet, Cold-Rolled, Terne (Lead-Tin Alloy) Coated by the Hot-Dip Process<sup>6</sup>

A 569/A569M Specification for Steel, Carbon (0.15 Maximum, Percent), Hot-Rolled Sheet and Strip Commercial Quality<sup>7</sup>

<sup>1</sup> This specification is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.03 on Outfitting.

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<sup>2</sup> Annual Book of ASTM Standards, Vol 01.04.

<sup>3</sup> Annual Book of ASTM Standards, Vol 01.05.

<sup>4</sup> Discontinued 1981—Replaced by B 633, Annual Book of ASTM Standards, Vol 02.05.

<sup>5</sup> Annual Book of ASTM Standards, Vol 01.03.

<sup>6</sup> Annual Book of ASTM Standards, Vol 01.06.

<sup>7</sup> Discontinued 2000—Replaced by A 1011/A 1011M, Annual Book of ASTM Standards, Vol 01.03.

### 3. Ordering Information

3.1 Orders for tanks under this specification shall include the following:

3.1.1 Quantity (number),

3.1.2 Size, either 5 or 10 gal (20 or 40 L),

3.1.3 Purchase option for finished tank materials: Terne plate (4.1.3), and

3.1.4 ASTM designation and year of issue.

3.2 If only size, quantity, and ASTM designation are specified and no purchase options are specified, then suppliers shall furnish all stainless steel tanks, brass faucets with flash arrestors, and painted steel mounting columns with bolt-on drip tray assemblies, which include perforated steel tray liners, drain plugs, drilled mounting holes, and mounting bolts.

3.3 Optional packaging/shipping.

3.3.1 If required for shipping, tanks shall be packaged individually in cartons suitable for freight handling.

### 4. Materials and Manufacture

#### 4.1 Materials:

4.1.1 *316 Stainless Steel Sheet* (Specification A 167), minimum thickness 24 gage (0.6 mm) on tank body, 22 gage (0.8 mm) on tank top and bottom; body bracket, filler spout, flash arrestor, vacuum breaker valve and linkage.

4.1.2 *316 Stainless Steel Cast, Wrought, or Forged Flanges*, (for faucet and drain).

4.1.3 *Terne Plate Sheet* (purchase option), minimum thickness 22 gage (0.8 mm) on tank body, top and bottom: body bracket, filler spout (Specification A 308).

#### 4.1.4 *Mild Steel*:

4.1.4.1 *Bolt-On Column Stand*, T-section, hot-rolled (Specification A 36/A 36M); minimum thickness 0.160 in. (4 mm).

4.1.4.2 *Drip Tray Bracket*, round edge, hot-rolled (Specification A 569/A569M).

4.1.4.3 *Drip Tray Assembly*, hot or cold-rolled (Specification A 108).

4.1.4.4 *Drip Tray Liner*, 11-gage (3 mm), zinc-plated (Specification A 164).

4.1.4.5 *Filler Spout Cover*, zinc-plated steel (Specification A 164).

4.1.4.6 *Drip Tray Drain*,  $\frac{3}{4}$ -in. (20 mm) NPS drain.