



EEEEV.MH29973 - ABOVEGROUND FLAMMABLE-LIQUID TANKS

Aboveground Flammable-liquid Tanks

See General Information for Aboveground Flammable-liquid Tanks

MARENGO FABRICATED STEEL LTD

MH29973

1089 County Rd 26

Po Box 179

Marengo, OH 43334-0179 USA

Aboveground tanks for flammable liquids

Aboveground tanks for flammable liquids on supports

Aboveground tanks for flammable liquids with supports

Secondary containment aboveground tanks for flammable liquids

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EEEEV.GuideInfo - ABOVEGROUND FLAMMABLE-LIQUID TANKS

[Containment Products for Flammable and Combustible Liquids] (Fixed and Stationary Storage Tanks) Aboveground Flammable-liquid Tanks

See General Information for Fixed and Stationary Storage Tanks

USE AND INSTALLATION

This category covers general-purpose, shop-fabricated, steel primary, secondary and diked containment-type tank constructions intended for aboveground storage of noncorrosive, stable, flammable and combustible liquids of maximum 1.0 spg at atmospheric pressure in capacities from approximately 60 gal to 75,000 gal.

These tanks are intended for fixed or stationary installation and use in accordance with ANSI/NFPA 30, "Flammable and Combustible Liquids Code," ANSI/NFPA 30A, "Code for Motor Fuel Dispensing Facilities and Repair Garages," ANSI/NFPA 31, "Installation of Oil-Burning Equipment," ANSI/NFPA 37, "Installation and Use of Stationary Combustion Engines and Gas Turbines," ANSI/NFPA 1, "Fire Code," the "International Fire Code" (published by the International Code Council), and/or other requirements of the Authority Having Jurisdiction (AHJ).

This category covers only the basic tank constructions and optional tank accessories specifically identified in the individual certifications that are investigated to additional requirements under the base tank standards.

This category does not cover field-erected tanks or portable/mobile tanks intended for shipping and transport, which are covered under separate requirements or regulations from the American Petroleum Institute, U.S. Department of Transportation, etc., or United Nations publications; or special-purpose tanks, such as utility or used oil.

These products have not been investigated for resistance to or use after hurricanes, tornadoes, earthquakes, floods or other natural disasters; or vehicle and similar impacts; and fire.

TANK TYPES

The following types of steel tank basic-containment constructions, designs and optional supports are indicated in the individual certifications:

Aboveground tank for flammable liquids (#) — Single-wall steel primary-containment tank.

Secondary-containment aboveground tank for flammable liquids (#) — Steel primary-containment tank within a steel secondary-containment shell forming an interstitial space capable of being pressurized and monitored for leakage.

(*) Diked aboveground tank for flammable liquids (#) — Steel primary-containment tank within a steel containment dike vessel capable of being monitored for leakage, but not capable of being pressurized.

(#) "on supports" — Optionally provided with supports to elevate and stabilize the tank above grade that are investigated for structural integrity.

(*) Diked tank designs are either:

"Open-top" — Dikes provided without covers that resist rain or debris entering the dike.

"Closed-top" — Dikes provided with covers that resist rain or debris entering the dike.

TANK ACCESSORIES

The following optional accessories noted in the individual certifications and investigated to additional requirements in ANSI/UL 142, "Steel Aboveground Tanks for Flammable and Combustible Liquids," may also be attached to the base tank:

Access devices — Ladders, stairs or runways provided for access, working or walking surfaces on the tank.

Lifting devices — Structural lugs, hooks or others means to facilitate lifting of the tank during fabrication, transport or installation.

Heating devices — Heating coils or hot wells provided within the tank for heating liquids in the tank.

FEATURES COVERED

The basic features of tanks covered under this category include all containment spaces and their respective openings (manways, emergency vents, normal vents, fill/withdraw, gauging, monitoring and other functional openings) with connections (threaded- or flanged-type fittings), and the tank accessories identified above.

All primary-tank compartment(s) are provided with normal and emergency vent openings. All secondary-tank interstitial space(s) are provided with emergency vent openings. It is anticipated the continued venting will be provided when installed in accordance with the applicable code.

In addition to vent openings, all primary-tank compartment(s) are provided with openings to accommodate filling, withdrawing, and inventory control; and all secondary-tank interstitial spaces are provided with openings for leak-detection monitoring.

Accessories (when provided) are attached to the tank or, where attachment at the factory is not possible (due to size/weight limits and/or potential damage), may be shipped with assembly instructions separately from or with the base tank.

All tank-containment compartments have been factory leak-tested by the manufacturer before shipping.

ACCESSORIES/FEATURES NOT INVESTIGATED

This category covers only the accessories and features specifically identified in the individual certifications. Any other accessories or components that are shipped with the tanks, attached to the tanks, or added to the tanks are not included in the scope of the tank certification. It is intended that the AHJ approve the use and/or installation of any such accessories independent of the tank certification.

In cases where either the tank is not marked for a specific fuel blend, or the liquid(s) to be stored in the tank is not known by the manufacturer, manway gasket compatibility is determined by the tank buyer.

RELATED PRODUCTS

See Fire-resistant Aboveground Tanks for Flammable and Combustible Liquids (EEZI) for tanks investigated to UL 2080, "Fire Resistant Tanks for Flammable and Combustible Liquids."

See Protected Aboveground Tanks for Flammable and Combustible Liquids (EELU) for tanks investigated to ANSI/UL 2085, "Protected Aboveground Tanks for Flammable and Combustible Liquids."

See Below-grade Vaults for Flammable-liquid Storage Tanks (EHOJ) for below-grade vaults investigated to UL 2245, "Below-Grade Vaults for Flammable Liquid Storage Tanks."

See Special-purpose Tanks (EFVT) for tanks constructed of steel, including generator base, work-top, lube oil, waste oil, day/utility, and other special-purpose types investigated to UL 142A, "Outline of Investigation for Special Purpose Aboveground Tanks for Specific Flammable or Combustible Liquids."

ADDITIONAL INFORMATION

For additional information, see Fixed and Stationary Storage Tanks (EDQX), Containment Products for Flammable and Combustible Liquids (ECPR) and Flammable and Combustible Liquids and Gases Equipment (AAPQ).

REQUIREMENTS

The basic standard used to investigate the basic tank-containment type and optional accessories in this category is ANSI/UL 142, "Steel Aboveground Tanks for Flammable and Combustible Liquids."

UL MARK

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Alternate UL Mark

The Listing Mark of UL on the product is the only method provided by UL to identify products manufactured under its Listing and Follow-Up Service. The Listing Mark for these products includes the UL symbol (as illustrated in the Introduction of this Directory) together with the word "LISTED," a control number, and the name of the appropriate tank construction as indicated in the individual Listings.

* * * * *

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Last Updated on 2018-04-13

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TSQT.E236061 - COMMERCIAL COOKING, RETHERMALIZATION AND POWERED HOT-FOOD- HOLDING AND -TRANSPORT EQUIPMENT

Commercial Cooking, Rethermalization and Powered Hot-food- holding and -Transport Equipment

See General Information for Commercial Cooking, Rethermalization and Powered Hot-food-holding and -Transport Equipment

DARLING INTERNATIONAL INC

E236061

251 O Connor Ridge Blvd Ste 300
Irving, TX 75038-6510 USA

Grease storage tanks, Model(s) 1500C, 1500D, 1500GRN, 1500H, 2036C, 2036H, BOSS Spacesaver, F4F

Used cooking oil caddy, Model(s) 401, 401A, 402, 404, 405

Some models may also have Safety Certification.

Last Updated on 2018-04-25

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TSQT.GuidelInfo - COMMERCIAL COOKING, RETHEMALIZATION AND POWERED HOT-FOOD- HOLDING AND -TRANSPORT EQUIPMENT

[Sanitation, Food Service Equipment] Commercial Cooking, Rethermalization and Powered Hot-food-holding and -Transport Equipment

See General Information for Sanitation, Food Service Equipment

USE

This category covers cooking and hot-food-holding equipment, including brewers, steam tables, griddles, broilers, ovens, fryers, food warmers, and similar equipment intended for commercial use.

PRODUCT MARKINGS

Equipment may be marked with use limitations or may provide guidance on intended application.

Rethermalization equipment is provided with a marking that specifies the maximum capacity of the unit.

Equipment provided with a security package for installation in areas where security may be a concern is marked "Intended for use only in environments where security is a concern, such as correctional facilities, mental health facilities, or some schools."

PRODUCT IDENTITY

One of the following product identities appears on the product:

Cooking Equipment

Hot-food-storage Equipment

Other product identities may be used as shown in the individual certifications.

RELATED PRODUCTS

Electric equipment and warming and serving equipment intended for commercial use and investigated to UL Safety Standards is covered under Commercial Cooking Appliances (KNGT) and Custom-built Food-service Equipment (KNNS).

Gas-fired food service equipment is covered under Gas-fired Food Service Equipment (LGQX).

See Lead Content Verification of Products in Contact with Potable Water (QNVB).

ADDITIONAL INFORMATION

For additional information, see Food Safety and Quality, Products and Equipment (AAFS).

REQUIREMENTS

The basic standard used to investigate products in this category is NSF/ANSI 4, "Commercial Cooking, Rethermalization and Hot Food Holding and Transport Equipment."

UL MARK

The Certification Mark of UL on the product is the only method provided by UL to identify products manufactured under its Certification and Follow-Up Service. The Certification Mark for these products includes the UL symbol, the words "CERTIFIED" and "SANITATION," and a file number.

Additional Certification Markings

Products covered under this category are additionally marked with the following information:

NSF/ANSI 4

For those products which are also certified by UL under another category, the statement "NSF/ANSI 4" is included on the product.

Alternate UL Mark

The Classification Mark of UL on the product is the only method provided by UL to identify products manufactured under its Classification and Follow-Up Service. The Classification Mark for these products includes the EPH Mark (as illustrated in the Introduction of this Directory) and the following additional information:

[PRODUCT IDENTITY*]

NSF/ANSI 4

Control No.

* **COOKING EQUIPMENT** or **HOT FOOD STORAGE EQUIPMENT**, or other appropriate product name as shown in the individual Classifications

For those products which are also Listed or Classified by UL under another category, the marking includes the appropriate Listing or Classification Mark, the EPH Mark, and the text "NSF/ANSI 4" below the EPH Mark.

* * * * *

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Last Updated on 2016-07-13

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EDXW.MH62347 - SPECIAL-PURPOSE NONMETALLIC CONTAINERS AND TANKS FOR COMBUSTIBLE AND NONCOMBUSTIBLE LIQUIDS

Special-purpose Nonmetallic Containers and Tanks for Combustible and Noncombustible Liquids

See General Information for Special-purpose Nonmetallic Containers and Tanks for Combustible and Noncombustible Liquids

DARLING INTERNATIONAL INC

MH62347

251 O Connor Ridge Blvd Ste 300
Irving, TX 75038-6510 USA

Nonmetallic primary aboveground tank for cooking oils and fats, Series B.O.S.S Saver.

Last Updated on 2018-10-01

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EDXW.GuideInfo - SPECIAL-PURPOSE NONMETALLIC CONTAINERS AND TANKS FOR COMBUSTIBLE AND NONCOMBUSTIBLE LIQUIDS

[Containment Products for Flammable and Combustible Liquids] (Portable Tanks, Containers and Cans) Special-purpose Nonmetallic Containers and Tanks for Combustible and Noncombustible Liquids

See General Information for Portable Tanks, Containers and Cans

GENERAL

This category covers special-purpose nonmetallic, atmospheric-type containers and tanks intended for the indoor or outdoor storage of specific combustible and noncombustible liquids typically used in stationary aboveground commercial or industrial applications as identified under **TYPES AND RATINGS** below.

The basic product construction consists of a nonmetallic primary, secondary or diked containment vessel provided with openings (fill vent, withdraw, etc.), and other optional accessories (supports, pumps, valves, gauges, etc.) as identified in the individual certifications.

These products are not intended for use as fuel cans, safety cans, bulk shipping containers, heating oil tanks or portable transfer tanks that have different applications and/or liquid ratings.

TYPES AND RATINGS

Containment Type — "Primary," "Secondary" or "Diked" as applicable, where:

Primary = Single-wall construction that provides primary containment of, and emergency venting for, the stored liquid.

Secondary = Double-wall construction (primary within an additional shell) that provides secondary containment of, emergency venting for, and leak monitoring of the interstitial space, and can be pressure tested.

Diked = Construction having a primary tank within an open- or closed-top box that provides at least 110% containment, emergency venting for, and leak monitoring of the dike area, but cannot be pressure tested.

Liquid Chemical (Container or Tank) — Vessels intended for general storage of specific combustible[#] or noncombustible^{*} liquid chemical(s) or families of chemical(s) as indicated in the individual certifications for general compliance with Chapter 9 of ANSI/NFPA 30, "Flammable and Combustible Liquids Code."

Containers for Class II and IIIA liquids[#] are limited to the DOT or UN types and sizes identified in Section 9.4.1(4) of ANSI/NFPA 30, with additional investigation to UL 2152, "Outline of Investigation for Special Purpose Nonmetallic Containers and Tanks for Specific Combustible or Noncombustible Liquids."

Tanks for Class II and IIIA liquids[#] are limited to the DOT or UN types and sizes identified in Section 9.4.1(6) of ANSI/NFPA 30, with additional investigation to UL 2152.

Vessels for Class IIIB liquids[#] may be DOT or UN types above or others types investigated to UL 2152, but are limited to 660 gal (2,500 L).

Vessels for noncombustible liquids^{*} may be DOT or UN types above or other types investigated to UL 2152, but are limited to 1,325 gal (5,000 L).

Cooking Oil Tank — Tanks up to 200 gal (760 L) intended for storage or collection of Class IIIB cooking oils and fats[#] typically found in restaurant or similar commercial food-preparing applications having engineered transfer systems covered by Section 66.19.7 of ANSI/NFPA 1, "Fire Code," or Section 19.7 of ANSI/NFPA 30.

[#] Combustible liquids = Limited to Class II, IIIA or IIIB combustible liquids that are specifically investigated under the individual certifications. These can include, but are not limited to:

Class II — Ketones, kerosene, naphtha, diesel fuels, fuel oils or ethyl butanol

Class IIIA — Aniline, cersol, hexanol, tetrahydronaphthaline or xylidine

Class IIIB — Lubricating oils, hydraulic oils, machine oils or processing oils

Cooking oils — Limited to Class IIIB combustible liquids extracted from plants (such as corn, soy, palm or vegetable oils) and/or animals (such as fats or grease), and used in cooking or food-preparing processes.

* Noncombustible liquids = Limited to noncombustible liquids that were specifically investigated under the individual certifications. These can include, but are not limited to, diesel exhaust fluid, detergent solutions, brine solutions, or antifreeze.

Lube Oil Tank — Tanks up to 793 gal (3000 L) intended for storage, dispensing and collection of Class IIIB motor oils (such as lubricating, transmission, cooling, etc.), working oils (such as hydraulic, brake, steering, cutting, etc.), and other petroleum or synthetic oils with similar chemical and physical properties used in equipment applications as permitted by ANSI/NFPA 30, ANSI/NFPA 30A, "Code for Motor Fuel Dispensing Facilities and Repair Garages," ANSI/NFPA 31, "Installation of Oil-Burning Equipment," ANSI/NFPA 1, or other Codes applied by the Authority Having Jurisdiction.

Vehicle Fluid Tank - Tanks up to 793 gal (3000 L) intended for storage, dispensing and collection of noncombustible fluids such as antifreeze/coolants (ethylene-glycol and water mixtures), windshield washer (alcohol, water and detergent mixtures), DEF (nom 1/3 urea and 2/3 water diesel exhaust solution), and other optional fluid types typically used in vehicles as permitted by ANSI/NFPA 30, ANSI/NFPA 30A, ANSI/NFPA 31, ANSI/NFPA 1, or other Codes applied by the Authority Having Jurisdiction.

PRODUCT IDENTITY

One of the following product identities appears on the product:

Nonmetallic (\$) Aboveground Container for (#) Liquid Chemicals

Nonmetallic (\$) Aboveground Tank for (#) Liquid Chemicals

Nonmetallic (\$) Aboveground Tank for Cooking Oils and Fats

Nonmetallic (\$) Aboveground Tank for Lube Oils

Nonmetallic (\$) Aboveground Tank for Vehicle Fluids

(\$) Primary, Secondary or Diked

Note: "Primary" and "Aboveground" are optional, but "Secondary" or "Diked" are required to identify the containment type.

(#) Class II, IIIA and/or IIIB, or Noncombustible

RELATED PRODUCTS

Small steel and plastic portable dispensing containers are covered under Portable Dispensing Containers (EDAW).

Large steel portable transfer tanks are covered under Portable Transfer Tanks (EFTZ).

Medium-size plastic and composite nonmetallic tanks for oil-burner fuels and other combustible liquids are covered under Nonmetallic Tanks for Oil-burner Fuels and Other Combustible Liquids (EFNI).

ADDITIONAL INFORMATION

For additional information, see Portable Tanks, Containers and Cans (ECTX), Containment Products for Flammable and Combustible Liquids (ECPR) and Flammable and Combustible Liquids and Gases Equipment (AAPQ).

REQUIREMENTS

The basic requirements used to investigate products in this category are contained in UL 2152, "Outline of Investigation for Special Purpose Nonmetallic Containers and Tanks for Specific Combustible or Noncombustible Liquids."

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