

# **Food Code**

**U.S. Public Health Service**

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**U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES Public Health Service •  
Food and Drug Administration College Park, MD 20740**

#### 4-603.13 Loading of Soiled Items, Warewashing Machines.

Soiled items to be cleaned in a WAREWASHING machine shall be loaded into racks, trays, or baskets or onto conveyors in a position that:

- (A) Exposes the items to the unobstructed spray from all cycles; and
- (B) Allows the items to drain.

#### 4-603.14 Wet Cleaning.

(A) EQUIPMENT FOOD-CONTACT SURFACES and UTENSILS shall be effectively washed to remove or completely loosen soils by using the manual or mechanical means necessary such as the application of detergents containing wetting agents and emulsifiers; acid, alkaline, or abrasive cleaners; hot water; brushes; scouring pads; high-pressure sprays; or ultrasonic devices.

(B) The washing procedures selected shall be based on the type and purpose of the EQUIPMENT or UTENSIL, and on the type of soil to be removed.

#### 4-501.110 Mechanical Warewashing Equipment, Wash Solution Temperature.

(A) The temperature of the wash solution in spray type warewashers that use hot water to SANITIZE may not be less than: (1) For a stationary rack, single temperature machine,  $74^{\circ}\text{C}$  ( $165^{\circ}\text{F}$ );

(2) For a stationary rack, dual temperature machine,  $66^{\circ}\text{C}$  ( $150^{\circ}\text{F}$ );

(3) For a single tank, conveyor, dual temperature machine,  $71^{\circ}\text{C}$  ( $160^{\circ}\text{F}$ ); or

(4) For a multitank, conveyor, multitemperature machine,  $66^{\circ}\text{C}$  ( $150^{\circ}\text{F}$ ).

(B) The temperature of the wash solution in spray-type warewashers that use chemicals to SANITIZE may not be less than  $49^{\circ}\text{C}$  ( $120^{\circ}\text{F}$ ).

#### 4-501.112 Mechanical Warewashing Equipment, Hot Water Sanitization Temperatures.

(A) Except as specified in ¶ (B) of this section, in a mechanical operation, the temperature of the fresh hot water SANITIZING rinse as it enters the manifold may not be more than  $90^{\circ}\text{C}$  ( $194^{\circ}\text{F}$ ), or less than: (1) For a stationary rack, single temperature machine,  $74^{\circ}\text{C}$  ( $165^{\circ}\text{F}$ ); or

(2) For all other machines,  $82^{\circ}\text{C}$  ( $180^{\circ}\text{F}$ ).

*(B) The maximum temperature specified under ¶ (A) of this section, does not apply to the high pressure and temperature systems with wand-type, hand-held, spraying devices used for the in-place cleaning and SANITIZING of EQUIPMENT such as meat saws.*

#### **4-501.113 Mechanical Warewashing Equipment, Sanitization Pressure.**

The flow pressure of the fresh hot water SANITIZING rinse in a WAREWASHING machine, as measured in the water line immediately downstream or upstream from the fresh hot water SANITIZING rinse control valve, shall be within the range specified on the machine manufacturer's data plate and may not be less than 35 kilopascals (5 pounds per square inch) or more than 200 kilopascals (30 pounds per square inch).