§ 318.300 Definitions.

(a) Abnormal container. A container with any sign of swelling or product leakage or any evidence that the contents of the unopened container may be spoiled.

(b) Acidified low acid product. A canned product which has been formulated or treated so that every component of the finished product has a pH of 4.6 or lower within 24 hours after the completion of the thermal process unless data are available from the establishment’s processing authority demonstrating that a longer time period is safe.

(c) Bleeders. Small orifices on a retort through which steam, other gasses, and condensate are emitted from the retort throughout the entire thermal process.

(d) Canned product. A meat food product with a water activity above 0.85 which receives a thermal process either before or after being packed in a hermetically sealed container. Unless otherwise specified, the term “product” as used in this subpart G shall mean “canned product.”

(e) Closure technician. The individual(s) identified by the establishment as being trained to perform specific container integrity examinations as required by this subpart and designated by the establishment to perform such examinations.

(f) Code lot. All production of a particular product in a specific size container marked with a specific container code.

(g) Come-up time. The elapsed time, including venting time (if applicable), between the introduction of the heating medium into a closed retort and the start of process timing.

(h) Critical factor. Any characteristic, condition or aspect of a product, container, or procedure that affects the adequacy of the process schedule. Critical factors are established by processing authorities.

(i) Headspace. That portion of a container not occupied by the product.

(1) Gross headspace. The vertical distance between the level of the product (generally the liquid surface) in an upright rigid container and the top edge of the container (i.e., the flange of an unsealed can, the top of the double...
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§ 318.301 Containers and closures.

(a) Examination and cleaning of empty containers. (1) Empty containers, closures, and flexible pouch roll stock shall be evaluated by the establishment to ensure that they are clean and free of structural defects and damage seam on a sealed can, or the top edge of an unsealed jar.

(2) Net headspace. The vertical distance between the level of the product (generally the liquid surface) in an upright rigid container and the inside surface of the lid.

(j) Hermetically sealed containers. Airtight containers which are designed and intended to protect the contents against the entry of microorganisms during and after thermal processing.

(1) Rigid container. A container, the shape or contour of which, when filled and sealed, is neither affected by the enclosed product nor deformed by external mechanical pressure of up to 10 pounds per square inch gauge (0.7 kg/cm²) (i.e., normal firm finger pressure).

(2) Semirigid container. A container, the shape or contour of which, when filled and sealed, is not significantly affected by the enclosed product under normal atmospheric temperature and pressure, but can be deformed by external mechanical pressure of less than 10 pounds per square inch gauge (0.7 kg/cm²) (i.e., normal firm finger pressure).

(3) Flexible container. A container, the shape or contour of which, when filled and sealed, is significantly affected by the enclosed product.

(k) Incubation tests. Tests in which the thermally processed product is kept at a specific temperature for a specified period of time in order to determine if outgrowth of microorganisms occurs.

(l) Initial temperature. The temperature, determined at the initiation of a thermal process cycle, of the contents of the coldest container to be processed.

(m) Low acid product. A canned product in which any component has a pH value above 4.6.

(n) Process schedule. The thermal process and any specified critical factors for a given canned product required to achieve shelf stability.

(o) Process temperature. The minimum temperature(s) of the heating medium to be maintained as specified in the process schedule.

(p) Process time. The intended time(s) a container is to be exposed to the heating medium while the heating medium is at or above the process temperature(s).

(q) Processing authority. The person(s) or organization(s) having expert knowledge of thermal processing requirements for foods in hermetically sealed containers, having access to facilities for making such determinations, and designated by the establishment to perform certain functions as indicated in this subpart.

(r) Program employee. Any inspector or other individual employed by the Department or any cooperating agency who is authorized by the Secretary to do any work or perform any duty in connection with the Program (see §301.2(f)).

(s) Retort. A pressure vessel designed for thermal processing of product packed in hermetically sealed containers.

(t) Seals. Those parts of a semirigid container and lid or of a flexible container that are fused together in order to hermetically close the container.

(u) Shelf stability. The condition achieved by application of heat, sufficient, alone or in combination with other ingredients and/or treatments, to render the product free of microorganisms capable of growing in the product at nonrefrigerated conditions (over 50 °F or 10 °C) at which the product is intended to be held during distribution and storage. Shelf stability and shelf stable are synonymous with commercial sterility and commercially sterile, respectively.

(v) Thermal process. The heat treatment necessary to achieve shelf stability as determined by the establishment’s processing authority. It is quantified in terms of:

(1) Time(s) and temperature(s); or

(2) Minimum product temperature.

(w) Venting. The removal of air from a retort before the start of process timing.

(x) Water activity. The ratio of the water vapor pressure of the product to the vapor pressure of pure water at the same temperature.

§ 318.301 Containers and closures.

(a) Examination and cleaning of empty containers. (1) Empty containers, closures, and flexible pouch roll stock shall be evaluated by the establishment to ensure that they are clean and free of structural defects and damage