



# USDA DAIRY VS. USDA MEAT AND POULTRY

AN OVERALL LOOK AT THE KEY DIFFERENCES BETWEEN THE HYGIENIC REQUIREMENTS OF THE TWO USDA PROGRAMS.



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USDA GUIDELINES FOR THE SANITARY DESIGN AND FABRICATION OF DAIRY PROCESSING EQUIPMENT 02/2022

## USDA DAIRY

USES 3-A SANITARY STANDARDS AND ACCEPTED PRACTICES WHERE THEY APPLY.

USDA GUIDELINES FOR THE SANITARY DESIGN AND FABRICATION OF DAIRY PROCESSING EQUIPMENT

# USDA MEAT AND POULTRY

- NSF/ANSI/3-A 14159-1-2019
  HYGIENE REQUIREMENTS FOR THE
  DESIGN OF MEAT AND POULTRY
  PROCESSING EQUIPMENT.
- NSF/ANSI/3A 14159-2-2019HYGIENE REQUIREMNTS FOR THE DESIGN OF HAND HELD TOOLS USED IN MEAT AND POULTRY PROCESSING.
- NSF/ANSI/3A 14159-3-2019HYGIENE REQUIREMENTS FOR THE DEISIGN OF MECHANICAL BELT CONVEYORS USED IN MEAT AND POULTRY PROCESSING.



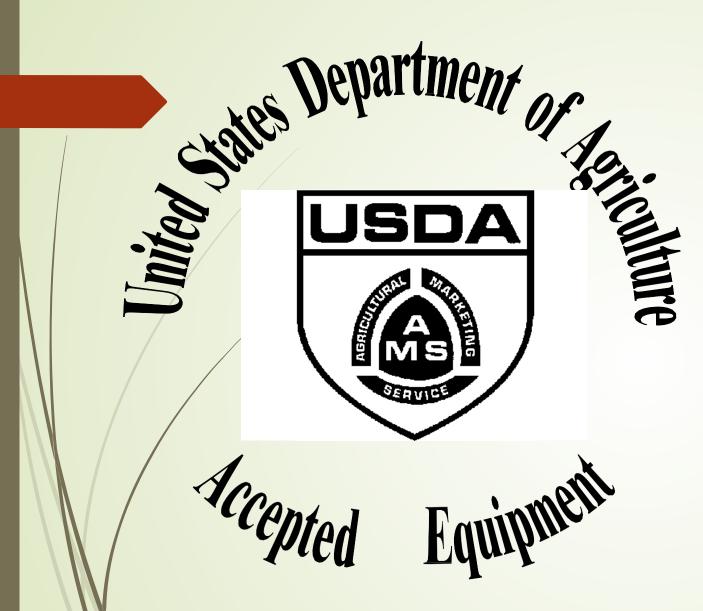
USDA GUIDELINES FOR THE
EVALUATION AND CERTIFICATION
OF THE
SANITARY DESIGN AND
FABRICATION
OF
MEAT AND POULTRY
PROCESSING EQUIPMENT



# MEAT AND POULTRY EQUIPMENTS USES LEVELS OF RISK ASSESSMENT DESCRIPTION

#### HYGIENE LEVEL

- 1. Equipment which, following a hygiene risk assessment, needs only to partially conform to the requirements of this standard to meet the identified risk(s) and to produce safe product.
- 2. Equipment which, following a hygiene risk assessment, conforms to the requirements of this standard, but requires planned disassembly for cleaning.
- 3. Equipment which, following a hygiene risk assessment, conforms fully to this Standard and can be cleaned without disassembly
- 4. Equipment which, following a hygiene risk assessment, conforms fully to this standard and has been designed for a specified heat, chemical, or physical treatment to free the equipment from relevant microorganisms.
- 5. Equipment which, following a hygiene risk assessment, will prevent microbial ingress and has been designed for a specific heat, chemical or physical treatment to free the equipment from relevant microorganisms.



MEAT AND POULTRY
OFFERS AN
OPPORTUNITY FOR
APPLICANTS TO REQUEST
PERMISSION TO APPLY
THIS SHIELD TO USDA
ACCEPTED EQUIPMENT.

SIMILAR TO THE GRADE LABEL SHIELD ON USDA GRADE AA BUTTER



#### PRODUCT CONTACT SURFACES

#### DAIRY

- ALL SURFACES FROM WHICH MATERIAL OR LIQUID MAY DROP, DRAIN,OR BE DRAWN INTO THE PRODUCT, ONTO A PRODUCT CONTACT SURFACE, PACKAGING MATERIALS, ETC.
- NURLED SURFACE NOT ALLOWED IN A PRODUCT CONTACT AREA.

#### **MEAT AND POULTRY**

- SAME DEFINITION
- ZONE 1
  - SURFACES THAT ARE DESIGNED AND INTENDED FOR DIRECT CONTACT WITH PRODUCT
- ZONE 2
  - SURFACES SUBJECT TO INCIDENTAL OR INDIRECT CONTACT WITH PRODUCT.
  - ROUGHENED BY KNURLING, GROOVES, RIBS, INDENTATIONS OR SIMILAR SURFACE FEATURES.

# BELT CONVEYORS



## CONVEYOR BELTING

#### DAIRY

- PRODUCT CONTACT SURACES OF PLASTIC BELTING. (63 µin Ra.)
- NOT SUBJECT TO CLEANABILITY TESTING.
- MUST COMPLY WITH THE USDA GUIDELINES.

#### **MEAT AND POULTRY**

- PLASTIC BELTING IS EXEMPT FROM SURFACE FINISH REQUIREMENTS
- MUST PASS THE NSF CLEANABILITY TEST DESCRIBED IN NSF 14159-3-2019.

## MATERIALS

#### **MEAT AND POULTRY**

- 300 SERIES STAINLESS (ALL)
- CARBON STEEL MAY BE USED FOR CUTTING SURFACES
- NO GLASS
- NO UNCOATED ALUMINUM
- NO UNCOATED ANODIZED ALUMINUM
- RTV SILICONE (FDA) MAY BE USED IN PRODUCT CONTACT AREAS.

#### **DAIRY**

- 300 SERIES STAINLESS (LESS 301 AND 302)
- CARBON STEEL NOT ALLOWED
- GLASS IS ALLOWED IN CERTAIN APPLICATIONS.
- SPECIFIC GRADES OF ALUMINUM ARE ALLOWED IN DRY APPLICATIONS.
- PRTV IS ONLY ALLOWED AS A PRODUCT CONTACT SURFACE IN 3-A SANITARY STANDARD 26-.

# RUBBERS, PLASTICS AND NON METALS DAIRY MEAT AND POULTRY

- A REGULATION LISTED IN TITLE 21 CODE OF FEDERAL REGULATIONS, PARTS 170-199.
- MEETS THE CRITERIA FOR GENERALLY RECOGNIZED AS SAFE (GRAS) STATUS (INCLUDING BUT NOT LIMITED TO A GRAS REGULATION OR GRAS NOTICE).
- A PRIOR SANCTION LETTER, UNLESS PREVIOUSLY RESCINDED.
- ► A VALID THRESHOLD OF REGULATION (TOR) EXEMPTION REQUEST.
- IS THE SUBJECT OF AN EFFECTIVE FOOD CONTACT SURFACE (FCS) FOOD CONTACT NOTIFICATION (FCN)? SECTION 409(H)(2)(C) OF THE FEDERAL FOOD, DRUG, AND COSMETIC ACT (THE ACT) STATES THAT AN FCN IS EFFECTIVE FOR THE MANUFACTURER, THE FOOD CONTACT SUBSTANCE (FCS), AND THE CONDITIONS OF USE IDENTIFIED IN THE NOTIFICATION ONLY.
- DETERMINATION THAT MIGRATION HAS NOT BEEN MADE AND IS SUPPORTED BY A CURRENT LETTER OF NO OBJECTION (OR OPINION LETTER), ISSUED BY THE UNITED STATES FOOD AND DRUG ADMINISTRATION (USFDA).

- PART 174-189
- GRAS
- PART 170.39
- PREMARKET
  NOTIFICATION

### RADIUS



(FOR INTERNAL ANGLES LESS THAN 135 DEGREES)

#### DAIRY

- 1/4 INCH (FORMED OR MACHINED)
- 1/8 INCH FOR WELDED ANGLES WHEN THINNER MATERIAL IS 3/16 OR LESS.
- SMALLER RADII MAY BE USE FOR FUNCTIONAL REASONS. NO RADII LESS THAN 1/32 INCH.
- PRESS FITS, SHRINK FIT AND FLAT SEALING SURFACES MAY HAVE ZERO RADII.

#### MEAT AND POULTRY

- 1/8 INCH
- 1/32 INCH FOR FUNCTIONAL REASONS
- PRESS FITS, SHRINK FIT AND FLAT SEALING SURFACES MAY HAVE ZERO RADII.
- INTERNAL 3 PLANE INTERSECIONS SHALL HAVE 1/4 INCH RADII.



### LUBRICATED BEARINGS

#### **DAIRY**

- AT LEAST 1 INCH OPEN CLEARANCE BETWEENT BEARING AND PROUCT CONTACT SURFACE.
- CONVEYORS USING PERMANENT FACTORY SEALED BEARINGS THAT CANNOT BE GREASED, SHALL HAVE AT LEAST ½ INCH OPEN CLEARANCE

#### MEAT AND POULTRY

LUBRICATED BEARINGS SHALL BE LOCATED OUTSIDE PRODUCT CONTACT WITH ADEQUATE CLEARANCE OPEN FOR INSPECTION BETWEEN BEARING AND THE PRODUCT CONTACT SURFACE.

### SPRAY DEVICES

#### DAIRY

- SHALL COMPLY WITH 3-A
  SANITARY STANDARD 78- IF LEFT IN
  PLACE DURING PRODUCTION.
- 1/8 INCH RADII ARE REQUIRED EXCEPT FOR BEARING SURFACES WHICH MAY BE 1/32 INCH

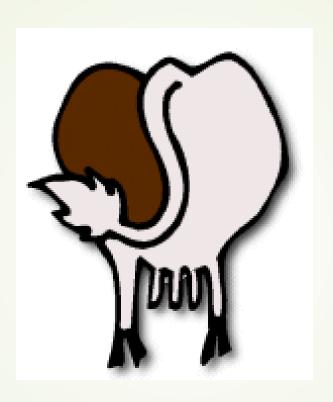
#### **MEAT AND POULTRY**

RADII MAY BE LESS THAN 1/32 INCH. WHEN LESS THAN 1/32 INCH, THE INTERNAL ANGLES MUST BE CLEANABLE AND INSPECTABLE.

# QUESTIONS



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**END**