

## Non-Retail Meat Case/Carton Barcoding Specifications for US domestic product

This non-retail meat case/carton barcoding specification outlines the barcoding requirements to achieve compliance with the following:



- USDA Food Safety and Inspection Service Directive 9900.5,
- USDA Food Safety and Inspection Service NOTICE 37-19 10/8/19,
- GS1 North American Industry Guidance for Standard Case Code Labeling,
- GS1 Traceability for Meat & Poultry - U.S. Implementation Guide

Standardised barcoding is the foundation for trading and logistics efficiency along the meat supply chain. Agreed meat industry application identifiers (eg the full barcode information/data) provide further regulatory information that can be used by USDA FSIS. If all the users along the supply chain cannot readily scan and interpret the information contained within case/ carton barcodes then traceability, accuracy and efficiency are lost. Most companies in the fast moving consumer goods (FMCG) industry, as well as the meat industry, comply with the GS1 standards for barcoding non-retail variable weight case/ carton products. However, some manufacturers and exporters have somehow implemented labelling systems that apply barcodes that do not meet the GS1 standards. When these non-compliant products are identified within the supply chain the results are delays, errors and the loss of vital traceability information. This includes not being able to use the barcode for the requirements outlined in the FSIS Directive 9900.5.

### Barcoding Symbology

The barcode symbology used for non-retail meat case/carton label is the GS1-128. The GS1-128 barcode allows secondary attribute information over and above primary item identification to be represented in the barcode. Application Identifiers (AIs) effectively act as prefixes for this information and define the meaning and structure of the embedded data which follows. For technical information on the GS1-128 barcode and GS1 system refer to the GS1 websites: GS1 US <https://www.gs1us.org/>

### Example labels

BONE-IN BEEF PRODUCT OF USA	ANY MEAT WORKS LLC INDUSTRIAL ESTATE ANYTOWN USA	<b>99999</b> S/N: 400004717176
<b>BEEF BLACK ANGUS RIB, SHORT PLATE SHORT RIB BN-IN</b>		
		
(01) 9 842684109309 7 (3202) 005370 (11) 220819 (21) 400004717176		
PACK DATE: 19-AUG-2022		
53.70lb	2.04lb	1
NET WEIGHT	TOTAL TARE	PCS
KEEP REFRIGERATED OR FROZEN		
		

BONELESS PORK PRODUCT OF USA	ANY MEAT WORKS LLC INDUSTRIAL ESTATE ANYTOWN USA	<b>99999</b> S/N: 400004717176
<b>1/8<sup>TH</sup> TRIM PREMIUM IOWA PORK</b>		
		
(01) 9 842684109309 7 (3202) 005370 (11) 220819 (21) 400004717176		
PACKED BY: ANY MEAT WORKS LLC      PACK DATE: 19-AUG-2022		
No Added Antibiotics, Hormones, Or Growth Promotants Always Vegetarian Fed And Crate Free * Contains No Artificial Ingredients, Minimally Processed FEDERAL REGULATIONS DO NOT PERMIT THE USE OF HORMONES IN PORK		
53.70lb	2.04lb	1
NET WEIGHT	TOTAL TARE	PCS
KEEP REFRIGERATED      Born, Raised and Harvested in USA		
		

## Minimum Barcode Information

Minimum barcode information required represented by Application Identifiers (AIs):

<b>AI</b>	<b>Example Data &amp; Format</b>	<b>Attribute Information</b>
(01)	<b>98426841093097</b> n14 - 14 digits numeric (fixed length)	<b>Global Trade Item Number (GTIN)</b> Item Identification. (Primary identification of the product carton) 9 indicates that it is a variable measure (weight) product 84268410 - GS1 Company Prefix. (7, 8 or 9 digits in length depending on the GS1 prefix allocated) 9309 - Company product code. (3, 4 or 5 digits in length) 7 - Check digit
(320n)	<b>005370</b> n6 - 6 digits numeric (fixed length)	<b>Net Weight - Pounds (Kilograms can be used where commercial required)</b> In this example as n =2, start at the very right of the measurement data field and count to the left 2 places. The net weight is 53.70 Lbs. (n indicates that the position of the decimal point is n places to the left of the end of the number e.g. 3202) NB: Weight information is mandatory if the item is a variable weight trade item. The AI 310n can be used for new weight kilograms where required.
(13)	<b>220819</b> n6 - 6 digits numeric (fixed length)	<b>Packaging Date (YYMMDD) (This is the production date for traceback)</b> In this example, the packaging date is 19 <sup>th</sup> of August 2022.
(21)	<b>400004717176</b> an...20 - alpha numeric up to 20 characters (variable length)	<b>Serial Number (allows for carton data to be captured when samples are selected for analysis)</b> In this example a 12 digit numeric only serial number has been allocated. The serial number ensures every case/ carton manufactured for that date is uniquely identified and traceable. NB: If a generic product is produced by more than one manufacturer and barcoded with a customer's item identification number, then possible duplication of serial numbers could exist.

## Maximum Length

When concatenating Application Identifiers (AIs) the maximum number of characters in the GS1-128 barcode symbol must not exceed 48. This includes Function Code 1 (FNC1) when used as a field separator but excludes auxiliary characters and the Symbol Check Character (Modulo 103). The length of the GS1-128 barcode symbol must never exceed 6.5 inches, including the Quiet Zones (light margins).

## Height of Bars

In the meat industry, the minimum bar height is 0.5 inches. For scanning in a General Distribution (automated scanning) environment, the minimum bar height for a GS1-128 barcode symbol is 1.25 inches.

## Human Readable Interpretation

Print the human readable interpretation either above or below the symbol bars. Make sure the Application Identifiers (AIs) are clearly recognisable by placing them in brackets in the human readable interpretation only.