

Non-Retail Meat Case/Carton Barcoding Specifications for Australian Exporters to the US

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,
- Australian Meat Notice 2018-01,
- GS1 North American Industry Guidance for Standard Case Code Labeling,
- GS1 Traceability for Meat & Poultry - U.S. Implementation Guide,
- Handbook of Australian Beef Processing Meat - Labelling and trade description,
- Meat Messaging label data specifications.




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 Meat Messaging industry portal 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/> or GS1 Australia <https://www.gs1au.org/>

Example labels

BONELESS BEEF PRODUCT OF AUSTRALIA	ANY MEAT WORKS PTY LTD INDUSTRIAL ESTATE ANYTOWN AUSTRALIA	AF510 S/N: 00 102886
A-F 90CL		
		
(01) 9 935947500007 2 (3102) 002720 (13) 220819 (21) 00102886		
PACK DATE: 19-AUG-2022		
27.20kg 60.00lb NET WEIGHT	0.94kg 2.07lb TOTAL TARE	0 PCS
KEEP FROZEN		 EST. NO. 999

BONELESS BEEF ORGANIC PRODUCT OF AUSTRALIA	ANY MEAT WORKS PTY LTD INDUSTRIAL ESTATE ANYTOWN AUSTRALIA	41060 3 PC
YP - TRI/TB TOP SIRLOIN		
100% GRASS FED IW/VAC NASAA 41339P NASAA Certified Organic 4139P NOP		
KEEP REFRIGERATED		
		
(01) 9 935947500007 2 (3102) 002720 (13) 220819 (21) 00102886		
		
PACK DATE: 19-AUG-2022 SLAUGHTER DATE: 19-AUG-2022		
27.20kg 60.00lb NET WEIGHT		
Step 4: Pasture Centered www.globalanimalpartnership.org		 EST. NO. 999

Minimum Barcode Information

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

AI	Example Data & Format	Attribute Information
(01)	99359475000072 n14- 14 digits numeric (fixed length)	Global Trade Item Number (GTIN) Item Identification. (Primary identification of the product carton) 9 indicates that it is a variable measure (weight) product 93594750 - GS1 Company Prefix. (7, 8 or 9 digits in length depending on the GS1 prefix allocated) 0007 - Company product code. (3, 4 or 5 digits in length) 2 - Check digit
(310n)	002720 n6 - 6 digits numeric (fixed length)	Net Weight – Kilograms (Pounds can be used where commercial required) 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 27.20kg. (n indicates that the position of the decimal point is n places to the left of the end of the number e.g. 3102) NB: Weight information is mandatory if the item is a variable weight trade item. The AI 320n can be used for net weight pounds where required.
(13)	220819 n6 - 6 digits numeric (fixed length)	Packaging Date (YYMMDD) (This is the production date for traceback) In this example, the packaging date is 19 th of August 2022.
(21)	00102886 an...20 - alpha numeric up to 20 characters (variable length)	Serial Number (allows for carton data to be captured when samples are selected for analysis) In this example a 8 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 165mm, including the Quiet Zones (light margins).

Height of Bars

In the meat industry, the minimum bar height is 13mm. For scanning in a General Distribution (automated scanning) environment, the minimum bar height for a GS1-128 barcode symbol is 32mm.

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.