

# series 8.2

## FZ400 Class - Frozen Food (4 x 4 Dimension)

### 8.2 MHz RF EAS Labels

The FZ400 Series Label is optimised for the protection of frozen merchandise such as meats and fish. The acrylic based adhesive provides a strong bond with frozen surfaces, and can be applied at temperatures of -20°C to -40°C

## Features

### 8.2 MHz Labels

- 100% Compatible with all 8.2MHz systems and deactivators
- Product Specifications (Amplitude, Frequency, and Q) yield outstanding detection and deactivation performance
- Aggressive hot melt rubber-based adhesive
- High quality paper for superior look, security, and printing
- Plain, Barcode, Printable, or Custom versions offered
- 1000 pc roll format for manual tagging
- 8000 pc roll format for automatic tagging
- Direct thermal printable labels are available



FZ400 Class 8.2 MHz RF Label

# FZ400 Class - Frozen Food (4 x 4 Dimension)

8.2 MHz Labels



## Label Dimension Specifications

Length	40mm (1.57in)
Width	40mm (1.57in)
Thickness (excluding liner)	
Maximum	Barcode 171µm (±20µm) 6.73mil (±0.78mil) Plain 151µm (±20µm) 5.95mil (±0.78mil)
Thickness (including liner)	
Maximum	Barcode 186µm (±20µm) 7.32mil (±0.78mil) Plain 166µm (±20µm) 6.54mil (±0.78mil)
Liner Width	42mm (1.65in)
Label Repeat	42mm (1.65in)
Label Spacing	2mm (±0.3mm) 0.079in (±11.8mil)

## Electrical Specifications

Frequency	8.2 MHz ±328kHz
Amplitude	Q > 65
Effective Volume	≥ 2000cm <sup>3</sup>
Deactivation Strength	0.9 A/m - 1.5 A/m
<b>Field Strength:</b>	
Operating Distance	Up to 1.5m (5 ft) in Dual Pedestal System

## Material Specifications

### Materials:

Substrate	Polyethylene, 20µm (0.79mil)
Paper Density	90g/m <sup>2</sup> thick reinforced paper
Inductor Side	Aluminum
Capacitor Side	Aluminum

### Adhesive:

Type	Rubber-based, hot melt adhesive
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## Environmental Specifications

Shelf Life	Two years from date of manufacture when labels are stored between 10° to 25°C (50° to 77°F) and 35 to 65% RH
Temperature:	Maximum storage temperature not to exceed 50°C (120°F) for 96 hours at 80% RH
Humidity:	Unaffected by 80% humidity up to 96 hours
Application Temp.	Above 0°C (32°F) to 38°C (100°F) and 90% RH at the application head. Recommended ambient temperature is 15° – 32°C (60° – 90°F) Recommended ambient humidity is 50 – 70%

## Quality Specifications

RoHS Certification	Certificate of Conformity RoHS 2002/95/EC
ISO Certification	ISO 9001:2000 for design and manufacture of radio frequency labels.
Quality Control	Series 8.2 labels are 100% inspected to ensure 100% (-1%) detection. Labels are inspected with state-of-the-art automatic in-line testers. ISO standardized sampling is used to inspect and deliver quality levels for deactivation performance and mechanical defects of all label rolls.

## Roll Specifications

	1000 labels	8000 labels
Labels Per Roll	1000 labels	8000 labels
Roll Length	≈ 42.5m (139' 5in)	≈ 336m (1102' 5in)
Diameter	76.2mm (3in)	152mm (6in)
Inner Core		
Roll Outer	145mm (5.7in)	385mm (15.2in)
Roll Weight	0.67kg (1.48lb)	4.9kg (10.8lb)
Case Weight	13.45kg (29.7lb)	25kg (55.1lb)
Rolls per Case	20	5
Labels per Case	20,000	40,000
Case Dimension	30.5 x 30.5 x 23.5cm 12"x12"x9.3"	39 x 39 x 27cm 15.4"x15.4"x10.6"
Cases per Pallet	45	25