



EDI IMPLEMENTATION GUIDE

856 ADVANCED SHIP NOTICE  
**REGULAR (NON-RAW METAL)**

ANSI X12 V4010



## 856 Ship Notice/Manifest

Functional Group ID=**SH**

### Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, and type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Suppliers must have the capability of transmitting almost all of the segments and elements described below. There are many other loops, segments and elements that can be used in an AIAG v4010 856 but those are not described in this document. In general, Flex-N-Gate can successfully receive any AIAG-compliant data, but the Flex-N-Gate software will only process and use the below entries described.

The far left column below describes Flex-N-Gate's requirements. Again, almost every segment and element in this 856 will be marked "Always", indicating that it must be sent in every 856, and that it must be sent in the specified loops. The few exceptions to these rules will be noted in the comments.

Please note that Flex-N-Gate will use the BSN02 (Shipment ID) as a packing slip number. REF\*BM and REF\*PK can be transmitted in the 856, but the Flex-N-Gate software will ignore these segments. Ideally, suppliers will use the same value for SID, BOL, Packing Slip, and invoice.



**REVISIONS:**

**1) 09/14/2022**

- a. Updated the [BSN02](#) and overall length
- b. Updated the [REF PK](#) notes

**2) 07/09/2019**

- a. Added the fact that we prefer the ASN and invoice be the same ID.
- b. Updated the [BSN02](#) notes
- c. Mandated the DTM 017#[DTM](#) - Expected Date. (will be monitored by some of our facilities going forward)
- d. **TD1 #[TD1](#)This should equal the number of containers that hold parts serials not including the masters(i.e. Containers not pallets)**
- e. Added the mandatory REF CN [REF CN](#) after the TD3 for the Carrier pro tracking number.
- f. Added Tare level [TARE LIN](#) (LIN package and REF LS) after the shipment level and before the Order level. These segments become Mandatory for Flex-N-Gate facilities **currently this is the serial from the External package label (Master/standalone/mixed).**
- g. Mandated the SN104 [SN104](#)- **Quantity Shipped to Date**
- h. Added 3 samples (Master/standalone/mixed) [SAMPLES](#)
- i. **Added EDI packaging Codes # [EDI PACKAGING CODES](#)**
- j. Added Note about ASN number  
any character after the 15<sup>th</sup> will be truncated and could cause a duplicate ASN. An ASN number is a unique supplier-assigned number that cannot repeat within a one-year period. This will be treated as Packing Slip Number in Flex-N-Gate software



**Heading:**

| <u>FNG Usage</u> | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u>                       | <u>AIAG Usage</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|------------------|-----------------|----------------|-----------------------------------|-------------------|----------------|--------------------|---------------------------|
| Always           | 010             | ST             | Transaction Set Header            | M                 | 1              |                    |                           |
| Always           | 020             | BSN            | Beginning Segment for Ship Notice | M                 | 1              |                    |                           |
| Always           | 040             | DTM            | Date/Time Reference               | M                 | 10             |                    |                           |

**Shipment Level:**

| <u>FNG Usage</u>    | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u>                                     | <u>AIAG Usage</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|---------------------|-----------------|----------------|---|-------------------|----------------|--------------------|---------------------------|
|                     |                 |                |   |                   |                | 200000             |                           |
| <b>LOOP ID – HL</b> |                 |                |   |                   |                |                    |                           |
| Always              | 010             | HL             | Hierarchical Level                              | M                 | 1              |                    | c1                        |
| Always              | 080             | MEA            | Measurements                                    | O                 | 40             |                    |                           |
| Always              | 110             | TD1            | Carrier Details (Quantity and Weight)           | O                 | 20             |                    |                           |
| Always              | 120             | TD5            | Carrier Details (Routing Sequence/Transit Time) | O                 | 12             |                    |                           |
| Always              | 130             | TD3            | Carrier Details (Equipment)                     | O                 | 12             |                    |                           |
|                     |                 |                |   |                   |                | 200                |                           |
| <b>LOOP ID - N1</b> |                 |                |   |                   |                |                    |                           |
| Always              | 220             | N1             | Name  | O                 | 1              |                    |                           |

**Tare Level:**

| <u>FNG Usage</u>    | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u>                 | <u>AIAG Usage</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|---------------------|-----------------|----------------|-----------------------------|-------------------|----------------|--------------------|---------------------------|
|                     |                 |                |                             |                   |                | 1                  |                           |
| <b>LOOP ID – HL</b> |                 |                |                             |                   |                |                    |                           |
| Always              | 010             | HL             | Hierarchical Level          | M                 | 1              |                    |                           |
| Always              | 020             | LIN            | Item package Identification | M                 | 1              |                    |                           |
| Always              | 150             | REF            | Reference Identification    | M                 | 1              |                    |                           |

**Order Level:**

| <u>FNG Usage</u>     | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u>              | <u>AIAG Usage</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|----------------------|-----------------|----------------|--------------------------|-------------------|----------------|--------------------|---------------------------|
|                      |                 |                |                          |                   |                | 200000             |                           |
| <b>LOOP ID – HL</b>  |                 |                |                          |                   |                |                    |                           |
| Always               | 010             | HL             | Hierarchical Level       | M                 | 1              |                    | c1                        |
| Always               | 020             | LIN            | Item Identification      | M                 | 1              |                    |                           |
| Always               | 030             | SN1            | Item Detail (Shipment)   | M                 | 1              |                    |                           |
| Always               | 050             | PRF            | Purchase Order Reference | M                 | 1              |                    |                           |
| See comments         | 150             | REF            | Reference Identification | M                 | >1             |                    |                           |
|                      |                 |                |                          |                   |                | 200                |                           |
| <b>LOOP ID – CLD</b> |                 |                |                          |                   |                |                    |                           |
| Always               | 170             | CLD            | Load Detail              | M                 | 1              |                    |                           |
| See comments         | 180             | REF            | Reference Identification | M                 | 500            |                    |                           |

**Summary:**

|        | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u>             | <u>Req. Des.</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|--------|-----------------|----------------|-------------------------|------------------|----------------|--------------------|---------------------------|
| Always | 010             | CTT            | Transaction Totals      | M                | 1              |                    | n1                        |
| Always | 020             | SE             | Transaction Set Trailer | M                | 1              |                    |                           |

**Transaction Set Notes**

1. Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.



**Segment:** **ST** Transaction Set Header

**Loop:**

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To indicate the start of a transaction set and to assign a control number

**Syntax Notes:**

**Semantic Notes:** 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

**Comments:** The transaction Set Control Number (ST02) in this header must match the Transaction Set Control Number (SE02) in the Transaction Set Trailer (SE).

**Data Element Summary**

| <b>FNG</b>   | <b>Ref.</b> | <b>Data</b>   | <b>Attributes</b> |
|--------------|-------------|---|-------------------|
| <u>Usage</u> | <u>Des.</u> | <u>Element</u> <u>Name</u>  |                   |
| Always       | ST01        | 143 <b>Transaction Set Identifier Code</b><br>Code uniquely identifying a Transaction Set<br>856 Ship Notice/Manifest   | <b>M ID 3/3</b>   |
| Always       | ST02        | 329 <b>Transaction Set Control Number</b><br>Identifying control number that must be unique within the transaction set<br>functional group assigned by the originator for a transaction set | <b>M AN 4/9</b>   |



**Segment:** **BSN** Beginning Segment for Ship Notice  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To transmit identifying numbers, dates, and other basic data relating to the transaction set  
**Syntax Notes:**  
**Semantic Notes:**

- 1 BSN03 is the date the shipment transaction set is created.
- 2 BSN04 is the time the shipment transaction set is created.

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>  | <u>Attributes</u> |
|------------------|------------------|---------------------|--|-------------------|
| Always           | <b>BSN01</b>     | <b>353</b>          | <b>Transaction Set Purpose Code</b><br>Code identifying purpose of transaction set<br>00 Original<br>01 Cancellation<br>05 Replace   | <b>M ID 2/2</b>   |
| Always           | <b>BSN02</b>     | <b>396</b>          | <b>Shipment Identification</b><br>A unique control number assigned by the original shipper to identify a specific shipment<br>Any character after the 15 <sup>th</sup> will be truncated and could cause a duplicate ASN<br>Unique supplier-assigned number that cannot repeat within a one-year period. This will be treated as Packing Slip Number in Flex-N-Gate software | <b>M AN 2/15</b>  |
| Always           | <b>BSN03</b>     | <b>373</b>          | <b>ASN Date</b><br>Date expressed as CCYYMMDD  | <b>M DT 8/8</b>   |
| Always           | <b>BSN04</b>     | <b>337</b>          | <b>ASN Time</b><br>Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)   | <b>M TM 4/8</b>   |



**Segment:** **DTM** Date/Time Reference  
**Loop:**  
**Level:** Heading  
**Usage:** Mandatory  
**Max Use:** 10  
**Purpose:** To specify pertinent dates and times  
**Syntax Notes:**

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.

**Semantic Notes:**

- 1 For DTM04, use valid X12 codes such as ED, ET, CD, CT, etc

**Comments:** **Some of the facilities will monitor the DTM 017 expected date in future. If you are unsure of this date please verify with the receiving plant if it is required by them**

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>  | <u>Attributes</u> |
|------------------|------------------|---------------------|--|-------------------|
| Always           | DTM01            | 374                 | <b>Date/Time Qualifier</b><br>Code specifying type of date or time, or both date and time<br>011 Shipped date<br>017 Expected date   | <b>M ID 3/3</b>   |
| Always           | DTM02            | 373                 | <b>Ship Date</b><br>Date expressed as CCYYMMDD   | <b>X DT 8/8</b>   |
| Always           | DTM03            | 337                 | <b>Ship Time</b><br>Time expressed in 24-hour clock time as follows:<br>HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) | <b>X TM 4/8</b>   |
| Always           | DTM04            | 623                 | <b>Shipper's Time Zone Code</b>  | <b>O ID 2/2</b>   |



**Segment:** **HL** Hierarchical Level  
**Loop:** HL Mandatory  
**Level:** Detail -- Shipment  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.  
The HL segment defines a top-down/left-right ordered structure.
- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

**Data Element Summary**

| <b>FNG Usage</b> | <b>Ref. Des.</b> | <b>Data Element</b> | <b>Name</b>   | <b>Attributes</b> |
|------------------|------------------|---------------------|---|-------------------|
| Always           | HL01             | 628                 | <b>Hierarchical ID Number</b><br>A unique number assigned by the sender to identify a particular data segment in a hierarchical structure<br>Use "1" for this occurrence of the HL at the shipment level, increment by 1 for each subsequent HL segment within the transaction. | <b>M AN 1/12</b>  |
| Always           | HL03             | 735                 | <b>Hierarchical Level Code</b><br>Code defining the characteristic of a level in a hierarchical structure<br>S Shipment   | <b>M ID 1/2</b>   |





**Segment:** MEA Measurements  
**Loop:** HL Mandatory  
**Level:** Detail -- Shipment  
**Usage:** Optional  
**Max Use:** 40  
**Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

**Syntax Notes:**  
**Semantic Notes:** 1 MEA04 defines the unit of measure for MEA03  
**Comments:**

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|------------------|------------------|---------------------|---|-------------------|
| Always           | MEA01            | 737                 | <b>Measurement Reference ID Code</b><br>Code identifying the broad category to which a measurement applies<br>PD Physical Dimensions  | O ID 2/2          |
| Always           | MEA02            | 738                 | <b>Measurement Qualifier</b><br>Code identifying a specific product or process characteristic to which a measurement applies<br>G Gross Weight<br>N Actual Net Weight   | O ID 1/3          |
| Always           | MEA03            | 739                 | <b>Measurement Value</b><br>The value of the measurement  | X R 1/20          |
| Always           | MEA04            | 355                 | <b>Unit or Basis for Measurement Code</b><br>To identify a composite unit of measure.<br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>Use any valid X12 measurement code | M ID 2/2          |



**Segment:** **TD1** Carrier Details (Quantity and Weight)  
**Loop:** HL Mandatory  
**Level:** Detail -- Shipment  
**Usage:** Optional  
**Max Use:** 20  
**Purpose:** To specify the transportation details relative to commodity, weight, and quantity  
**Syntax Notes:** 1 If TD101 is present, then TD102 is required.  
**Semantic Notes:**  
**Comments:** **This should equal the number of containers that hold parts serials not including the masters (i.e. Containers not pallets)**

**Data Element Summary**

| <b>FNG</b>   | <b>Ref.</b> | <b>Data</b>    | <b>Name</b>  | <b>Attributes</b> |
|--------------|-------------|----------------|--|-------------------|
| <u>Usage</u> | <u>Des.</u> | <u>Element</u> |  |                   |
| Always       | TD101       | 103            | <b>Packaging Code</b><br>Code identifying the type of packaging<br>Use any valid X12 packaging code. | O AN 3/5          |
| Always       | TD102       | 80             | <b>Lading Quantity</b><br>Number of units (pieces) of the lading commodity                           | X N0 1/7          |



**Segment:** **TD5** Carrier Details (Routing Sequence/Transit Time)  
**Loop:** HL Mandatory  
**Level:** Detail -- Shipment  
**Usage:** Optional  
**Max Use:** 12  
**Purpose:** To specify the carrier and sequence of routing and provide transit time information  
**Syntax Notes:**

- 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.
- 2 If TD502 is present, then TD503 is required.
- 3 If TD507 is present, then TD508 is required.

**Semantic Notes**  
**Comments:**

- 1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|------------------|------------------|---------------------|---|-------------------|
| Always           | TD501            | 133                 | <b>Routing Sequence Code</b><br>Code describing the relationship of a carrier to a specific shipment movement<br>B Origin/Delivery Carrier (Any Mode)   | O ID 1/2          |
| Always           | TD502            | 66                  | <b>Identification Code Qualifier</b><br>Code designating the system/method of code structure used for Identification Code (67)<br>2 Standard Carrier Alpha Code (SCAC)  | X ID 1/2          |
| Always           | TD503            | 67                  | <b>Identification Code</b><br>Code identifying a party or other code<br>Use SCAC code of trucking company   | X AN 2/80         |
| Always           | TD504            | 91                  | <b>Transportation Method/Type Code</b><br>Code specifying the method or type of transportation for the shipment<br>Any valid X12 code except mutually defined "ZZ".   | X ID 1/2          |
| Always           | TD507            | 309                 | <b>Location Qualifier</b><br>Code identifying type of location<br>If TD504 = 'A', use code value "OR", meaning Origin (Shipping Point).<br>OR Origin (Shipping Point)<br>PP Pool Point                            | O ID 1/2          |
| Always           | TD508            | 310                 | <b>Location Identifier</b><br>Code which identifies a specific location<br>Give pool code if TD507 is "PP"; give airport code identifier if TD507 is "OR" for an air shipment (i.e. DTW = Detroit Metro Airport). | X AN 1/30         |



**Segment:** **TD3** Carrier Details (Equipment)

**Loop:** HL Mandatory

**Level:** Detail -- Shipment

**Usage:** Optional

**Max Use:** 12

**Purpose:** To specify transportation details relating to the equipment used by the carrier

**Syntax Notes:** 1 Only one of TD301 or TD310 may be present.

2 If TD302 is present, then TD303 is required.

**Semantic Notes:**

**Comments:** The Carrier Pro tracking number is put in the REF CN segment.

**Data Element Summary**

| <b>FNG</b>   | <b>Ref.</b> | <b>Data</b>    | <b>Name</b>  | <b>Attributes</b> |
|--------------|-------------|----------------|--|-------------------|
| <u>Usage</u> | <u>Des.</u> | <u>Element</u> |  |                   |
| Always       | TD301       | 40             | <b>Equipment Description Code</b><br>Code identifying type of equipment used for shipment<br>Any valid X12 code except mutually defined.             | X ID 2/2          |
| Always       | TD302       | 206            | <b>Equipment Initial</b><br>Prefix or alphabetic part of an equipment unit's identifying number  | O AN 1/4          |
| Always       | TD303       | 207            | <b>Equipment Number</b><br>Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) | X AN 1/10         |



**Segment:**           **REF** Reference Identification

- Loop:** HL Mandatory
- Level:** Detail -- Shipment
- Usage:** Optional
- Max Use:** >1
- Purpose:** To specify identifying information
- Syntax Notes:** 1 At least one of REF02 or REF03 is required.
- Semantic Notes:**
- Comments:** 1 while it is very common for a Bill of Lading and Packing List to be sent in the REF02 at this level, the Flex-N-Gate software will not process this segment. Please see the 830 introductory comments.  
The "CN" is a mandatory ref segment for the carrier pro tracking number.  
The "PK" is an Optional ref segment for the packing slip if you do not map this then the ASN number [BSN02](#) will be used.

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|------------------|------------------|---------------------|---|-------------------|
| See comments     | <b>REF01</b>     | <b>128</b>          | <b>Reference Identification Qualifier</b><br>Code qualifying the Reference Identification<br>AW            Air Waybill Number<br>FR            Freight Bill<br>PK            Packing List Number<br>CN            Carrier pro tracking number | <b>M ID 2/3</b>   |
| See comments     | <b>REF02</b>     | <b>127</b>          | <b>Reference Identification</b><br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier  | <b>X AN 1/30</b>  |



**Segment:** N1 Name  
**Loop:** HL/N1 **Repeat:** 200  
**Level:** Detail -- Shipment  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To identify a party by type of organization, name, and code  
**Syntax Notes:** 1 At least one of N102 or N103 is required.  
 2 If either N103 or N104 is present, then the other is required.

**Semantic Notes:**

**Comments:** This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. This means that what we send you on the 830 needs to be returned...  
 N1 SU is a mandatory qualifier/ID this should match your GS segment as well as your Label Supplier ID

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|------------------|------------------|---------------------|---|-------------------|
| Always           | N101             | 98                  | <b>Entity Identifier Code</b><br>Code identifying an organizational entity, a physical location, property or an individual<br>ST Ship To<br>SU Supplier/Manufacturer<br>SF Ship From            | M ID 2/3          |
| Always           | N102             | 93                  | <b>Name</b><br>Free-form name   | X AN 1/60         |
| Always           | N103             | 66                  | <b>Identification Code Qualifier</b><br>Code designating the system/method of code structure used for Identification Code (67)<br>1 D-U-N-S Number, Dun & Bradstreet                            | X ID 1/2          |
| Always           | N104             | 67                  | <b>Identification Code</b><br>Code identifying a party or other code<br>This should match your GS segment unless otherwise directed/required. This is the same Supplier ID that is on the Label | X AN 2/80         |



**Segment:** **HL Hierarchical Level**

**Loop:** HL **Repeat:** 1

**Level:** Detail -- Tare

**Usage:** Mandatory

**Max Use:** 1

**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

**Syntax Notes:**

**Semantic Notes:**

- Comments:**
- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.  
The HL segment defines a top-down/left-right ordered structure.
  - 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
  - 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
  - 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

#### Data Element Summary

| <b>FNG Usage</b> | <b>Ref. Des.</b> | <b>Data Element</b> | <b>Name</b>   | <b>Attributes</b> |
|------------------|------------------|---------------------|---|-------------------|
| Always           | HL01             | 628                 | <b>Hierarchical ID Number</b><br>A unique number assigned by the sender to identify a particular data segment in a hierarchical structure<br>Use "1" for this occurrence of the HL at the shipment level, increment by 1 for each subsequent HL segment within the transaction. | <b>M AN 1/12</b>  |
| Always           | HL02             | 734                 | <b>Hierarchical Parent ID Number</b><br>Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to  | <b>O AN 1/12</b>  |
| Always           | HL03             | 735                 | <b>Hierarchical Level Code</b><br>Code defining the characteristic of a level in a hierarchical structure   | <b>M ID 1/2</b>   |
|                  |                  |                     | T Tare  |                   |



Segment: **LIN** Item Identification

Loop: HL

Level: Detail – Tare

Usage: Mandatory

Max Use: 1

Purpose: To specify basic item identification data

Comments: 1 See the Data Dictionary for a complete list of IDs.

2 LIN02 through LIN3 provide the Master Packaging Code

Example of LIN:

**Data Element Summary**

| <u>FNG</u>   | <u>Ref.</u> | <u>Data</u>    | <u>Name</u>   | <u>Attributes</u> |
|--------------|-------------|----------------|---|-------------------|
| <u>Usage</u> | <u>Des.</u> | <u>Element</u> |   |                   |
| Always       | LIN02       | 235            | <b>Product/Service ID Qualifier</b><br>Code identifying the type/source of the descriptive number used in Product/Service ID (234)<br>PG Packaging Code | <b>M ID 2/2</b>   |
| Always       | LIN03       | 234            | <b>Product/Service ID</b><br>Identifying number for a product or service  | <b>M AN 1/48</b>  |





**Segment:** **REF** Reference Identification  
**Loop:** HL  
**Level:** Detail -- Tare  
**Usage:** Mandatory  
**Max Use:** 12  
**Purpose:** To specify identifying information  
**Syntax Notes:** 1 At least one of REF02 is required.

**Semantic Notes:**

**Comments:** 1 This segment becomes Mandatory for Flex-N-Gate facilities. This is the serial from the External package label (Master/standalone/mixed).

REF LS ensure that the "S" is not included as part of the ASN. Should be imbedded in the Serial Barcode of the LABEL only.

**Data Element Summary**

| <u>FNG</u>                   | <u>Ref.</u>          | <u>Data</u>           | <u>Name</u>  | <u>Attributes</u> |
|------------------------------|----------------------|-----------------------|--|-------------------|
| <u>Usage</u><br>See comments | <u>Des.</u><br>REF01 | <u>Element</u><br>128 | <b>Reference Identification Qualifier</b><br>Code qualifying the Reference Identification<br>LS Bar-Coded Serial Number for External package   | <b>M ID 2/3</b>   |
| See comments                 | REF02                | 127                   | Provide the Serial bar code label information at the Tare Level.<br><b>Reference Identification</b><br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | <b>X AN 1/30</b>  |



**Segment:** **HL** Hierarchical Level  
**Loop:** HL **Repeat:** 200000  
**Level:** Detail -- Order  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**

- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.  
The HL segment defines a top-down/left-right ordered structure.
- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

#### Data Element Summary

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|------------------|------------------|---------------------|---|-------------------|
| Always           | HL01             | 628                 | <b>Hierarchical ID Number</b><br>A unique number assigned by the sender to identify a particular data segment in a hierarchical structure<br>Use "1" for this occurrence of the HL at the shipment level, increment by 1 for each subsequent HL segment within the transaction. | <b>M AN 1/12</b>  |
| Always           | HL02             | 734                 | <b>Hierarchical Parent ID Number</b><br>Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to  | <b>O AN 1/12</b>  |
| Always           | HL03             | 735                 | <b>Hierarchical Level Code</b><br>Code defining the characteristic of a level in a hierarchical structure<br>O Order  | <b>M ID 1/2</b>   |



**Segment:** **LIN** Item Identification  
**Loop:** HL  
**Level:** Detail – Order  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify basic item identification data  
**Comments:**

- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU
- 3 While it is very common for a Purchase Order Number to be sent in the LIN05, the Flex-N-Gate software will not use this element. Only the PO# in PRF01 is used.

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>   | <u>Attributes</u> |
|------------------|------------------|---------------------|---|-------------------|
| Always           | LIN02            | 235                 | <b>Product/Service ID Qualifier</b><br>Code identifying the type/source of the descriptive number used in Product/Service ID (234)<br>BP Buyer's Part Number<br><b>RC</b> Returnable container code   | <b>M ID 2/2</b>   |
| Always           | LIN03            | 234                 | <b>Product/Service ID</b><br>Identifying number for a product or service  | <b>M AN 1/48</b>  |
| See comments     | LIN04            | 235                 | <b>Product/Service ID Qualifier</b><br>Code identifying the type/source of the descriptive number used in Product/Service ID (234)<br>VP Vendor part number<br><b>PO</b> Purchase Order ( also must be in the PRF segment)<br>EC Engineering change | <b>X ID 2/2</b>   |
| See comments     | LIN05            | 234                 | <b>Product/Service ID</b><br>Identifying number for a product or service<br>LIN06 through LN31 provide for 13 additional pairs of data elements 235 and 234.  | <b>X AN 1/48</b>  |



**Segment:** **SN1** Item Detail (Shipment)  
**Loop:** HL  
**Level:** Detail -- Order  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To specify line-item detail relative to shipment  
**Syntax Notes:** 1 If either SN105 or SN106 is present, then the other is required.  
**Semantic Notes:** 1 SN101 is the ship notice line-item identification.  
**Comments:** 1 SN103 defines the unit of measurement for both SN102 and SN104.

**Data Element Summary**

| <b>FNG Usage</b> | <b>Ref. Des.</b> | <b>Data Element</b> | <b>Name</b>   | <b>Attributes</b> |
|------------------|------------------|---------------------|---|-------------------|
| Always           | SN102            | 382                 | <b>Number of Units Shipped</b><br>Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set  | <b>M R 1/10</b>   |
| Always           | SN103            | 355                 | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>This must be the same Unit of Measure sent in the corresponding 830, in the UIT01. | <b>M ID 2/2</b>   |
| Always           | SN104            | 646                 | <b>Quantity Shipped to Date</b><br>Number of units shipped to date, including this shipment   | <b>M R 1/15</b>   |
| Conditional      | SN106            | 355                 | <b>Unit or Basis for Measurement Code</b><br>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken<br>Use any valid X12 code except mutually defined, "ZZ".                              | <b>X ID 2/2</b>   |



**Segment:** **PRF** Purchase Order Reference  
**Loop:** HL  
**Level:** Detail -- Order  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To provide reference to a specific purchase order  
**Syntax Notes:**  
**Semantic Notes:** 1 PRF04 is the date assigned by the purchaser to purchase order.  
**Comments:**

**Data Element Summary**

| <b>FNG</b>   | <b>Ref.</b> | <b>Data</b>    | <b>Name</b>   | <b>Attributes</b> |
|--------------|-------------|----------------|---|-------------------|
| <u>Usage</u> | <u>Des.</u> | <u>Element</u> |   |                   |
| Always       | PRF01       | 324            | <b>Purchase Order Number</b>  | M AN 1/22         |
|              |             |                | Identifying number for Purchase Order assigned by the orderer/purchaser |                   |
|              |             |                | Use PO number from releasing document.                                  |                   |



**Segment:** **CLD** Load Detail  
**Loop:** HL/CLD  
**Level:** Detail -- Order  
**Usage:** Optional  
**Max Use:** 500  
**Purpose:** To specify the number of material loads shipped  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:** This segment will transmit the total number of material loads shipped for the preceding Order Level LIN. There may be multiple depending on the shipment.

**Data Element Summary**

| <b>FNG Usage</b> | <b>Ref. Des.</b> | <b>Data Element</b> | <b>Name</b>   | <b>Attributes</b> |
|------------------|------------------|---------------------|---|-------------------|
| Always           | CLD01            | 622                 | <b>Number of Loads</b><br>Number of containers shipped by the supplier  | <b>M N0 1/5</b>   |
| Always           | CLD02            | 382                 | <b>Number of Units Shipped</b><br>Numeric value of units shipped in manufacturer's container for a line item or transaction set<br>Total quantity per container.  | <b>M R 1/10</b>   |
| Always           | CLD03            | 103                 | <b>Packaging Code</b><br>Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required<br>Any valid X12 code except mutually defined, "ZZ". | <b>O AN 3/5</b>   |



**1Segment:** **REF** Reference Identification  
**Loop:** CLD Optional  
**Level:** Detail -- Order  
**Usage:** Mandaory  
**Max Use:** 500  
**Purpose:** To specify identifying information  
**Syntax Notes:** 1 At least one of REF02 or REF03 is required.  
**Semantic Notes:**  
**Comments:** This segment becomes Mandatory for some Flex-N-Gate facilities  
 None of our facilities currently use Master Labels the ref LS should  
 Be the container labels for the parts.  
**REF 03 is Mandatory for some of the plants that require the LT.** the actual lot  
 number is a SUB element of the REF 03 and must be accompanied by a LS  
 serial

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>  | <u>Attributes</u> |
|------------------|------------------|---------------------|--|-------------------|
| Always           | REF01            | 128                 | Reference Identification<br>Qualifier<br>Code qualifying the Reference Identification<br>Provide the Serial bar code label information at the Order Level.<br>LS Bar-Coded Serial Number   | M ID 2/3          |
| Always           | REF02            | 127                 | Reference Identification<br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier<br>Indicate the Barcode Serial Number.   | X AN 1/22         |
| NOTES:           |                  |                     | For the REF LS, ensure that the qualifiers are not imbedded in the Serial Barcode of the LABEL only.   |                   |
| condition        | REF03            | 127                 | Reference Identification<br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier. This will have a sub element of the actual Lot number<br>LT Lot Number then add sub element | X AN 1/22         |
| condition        | REF04            | 127                 | Reference Identification<br>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier<br>Indicate the Barcode Serial lot Number.   | X AN 1/22         |
| NOTES:           |                  |                     | REF LT if the plant you are sending to mandates a Lot number it must be after the Serial. If no serials then no lot number can be sent.  |                   |



**Segment:** **CTT** Transaction Totals  
**Loop:** Summary  
**Level:** Optional  
**Usage:** 1  
**Max Use:** 1  
**Purpose:** To transmit a hash total for a specific element in the transaction set  
**Syntax Notes:** 1 If either CTT03 or CTT04 is present, then the other is required.  
 2 If either CTT05 or CTT06 is present, then the other is required.  
**Semantic Notes:**  
**Comments:** 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.

**Data Element Summary**

| <u>FNG Usage</u> | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u>  | <u>Attributes</u> |
|------------------|------------------|---------------------|--|-------------------|
| Always           | CTT01            | 354                 | <b>Number of Line Items</b><br>Total number of line items in the transaction set<br>Total number of HL segments.   | <b>M N0 1/6</b>   |
| Always           | CTT02            | 347                 | <b>Hash Total</b><br>Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.<br>Hash total of quantity shipped (SN102). | <b>O R 1/10</b>   |





**Segment:** **SE** Transaction Set Trailer  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:** 1 SE is the last segment of each transaction set.

**Data Element Summary**

| <b>FNG</b>   | <b>Ref.</b> | <b>Data</b>    | <b>Name</b>  | <b>Attributes</b> |
|--------------|-------------|----------------|--|-------------------|
| <b>Usage</b> | <b>Des.</b> | <b>Element</b> |  |                   |
| Always       | SE01        | 96             | <b>Number of Included Segments</b><br>Total number of segments included in a transaction set including ST and SE segments  | <b>M NO 1/10</b>  |
| Always       | SE02        | 329            | <b>Transaction Set Control Number</b><br>Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | <b>M AN 4/9</b>   |

# SAMPLES

## Sample MIXED 856:

### 4 Containers on 1 master PALLET with 2 part numbers

ISA\*00\* \*00\* \*01\*VENDDUNS# \*ZZ\*OURDUNS# \*190607\*1634\*U\*00401\*000000154\*0\*P\*:

GS\*SH\*VENDDUNS#\*OURDUNS#\*20190607\*1634\*154\*X\*004010.

ST\*856\*0001.

BSN\*00\*mixed 2\*20190607\*1634.

DTM\*011\*20190607\*1534\*CD.

HL\*1\*\*S.

MEA\*PD\*G\*1494\*LB.

MEA\*PD\*N\*1436\*LB.

TD1\*CTN90\*4.

TD5\*B\*2\*ODFL\*M\*\*\*PP\*32053.

TD3\*TL\*ODFL\*1.

REF\*BM\*A74580.

REF\*PK\*A74580.

REF\*CN\*CARRPROREF.

N1\*ST\*FLEX-N-GATE N GATE ADV\*1\*OURDUNS#.

N1\*SU\*Vendor Name\*1\*VENDDUNS#.

**HL\*2\*1\*T.**

LIN\*\*PG\*PLT090.

REF\*LS\*MST2081477.

**HL\*3\*1\*O.**

LIN\*\*BP\*X0820483.

SN1\*\*4000\*EA\*226000.

PRF\*18400.

CLD\*2\*2000\*CTN90.

REF\*LS\*ZC22081475.

REF\*LS\*ZC22081474.

**HL\*4\*1\*O.**

LIN\*\*BP\*X0820480.

SN1\*\*2400\*EA\*433200.

PRF\*18400.

CLD\*2\*1200\*CTN90.

REF\*LS\*ZC22081399.

REF\*LS\*ZC22081398.

CTT\*4\*6400.

SE\*32\*0001.

GE\*1\*154.

IEA\*1\*000000154.



**Sample MASTER 856:**

**4 Containers on 2 master PALLET with each having 1 part number**

ISA\*00\* 00\* 01\*VENDDUNS# \*ZZ\*OURDUNS# \*190607\*1634\*U\*00401\*000000154\*0\*P\*.

GS\*SH\*VENDDUNS#\*OURDUNS#\*20190607\*1634\*154\*X\*004010.

ST\*856\*0001.

BSN\*00\*master2\*20190607\*1634.

DTM\*011\*20190607\*1534\*CD.

HL\*1\*\*S.

MEA\*PD\*G\*1494\*LB.

MEA\*PD\*N\*1436\*LB.

TD1\*CTN90\*4.

TD5\*B\*2\*ODFL\*M\*\*\*PP\*32053.

TD3\*TL\*ODFL\*1.

REF\*BM\*A74580.

REF\*PK\*A74580.

REF\*CN\*CARRPROREF.

N1\*ST\*FLEX-N-GATE N GATE ADV\*1\*OURDUNS#.

N1\*SU\* Vendor Name\*1\*VENDDUNS#.

HL\*2\*1\*T.

LIN\*\*PG\*PLT090.

REF\*LS\*MST2081477.

HL\*3\*1\*O.

LIN\*\*BP\*X0820483.

SN1\*\*4000\*EA\*226000.

PRF\*4000.

CLD\*2\*2000\*CTN90.

REF\*LS\*ZC22081477.

REF\*LS\*ZC22081476.

HL\*4\*1\*T.

LIN\*\*PG\*PLT090.

REF\*LS\*MST0820480.

HL\*5\*1\*O.

LIN\*\*BP\*X0820480.

SN1\*\*2400\*EA\*433200.

PRF\*18400.

CLD\*2\*1200\*CTN90.

REF\*LS\*ZC22081401.

REF\*LS\*ZC22081400.

CTT\*5\*6400.

SE\*35\*0001.

GE\*1\*154.

IEA\*1\*000000154.



**Sample STANDALONE 856:**

2 Containers on 2 master PALLET with each having 1 part number the TARE REF LS and the CLD REF LS should be equal as well as lot number "999999999".

ISA\*00\* \*00\* \*01\*VENDDUNS# \*ZZ\*OURDUNS# \*190607\*1634\*U\*00401\*000000154\*0\*P\*.  
GS\*SH\*VENDDUNS#\*OURDUNS#\*20190607\*1634\*154\*X\*004010.  
ST\*856\*0001.  
BSN\*00\*stand2\*20190607\*1634.  
DTM\*011\*20190607\*1534\*CD.  
HL\*1\*\*S.  
MEA\*PD\*G\*1494\*LB.  
MEA\*PD\*N\*1436\*LB.  
TD1\*CTN90\*3.  
TD5\*B\*2\*ODFL\*M\*\*\*PP\*32053.  
TD3\*TL\*ODFL\*1.  
REF\*BM\*A74580.  
REF\*PK\*A74580.  
REF\*CN\*CARRPROREF.  
N1\*ST\*FLEX-N-GATE N GATE ADV\*1\*OURDUNS#.  
N1\*SU\*Vendor Name\*1\*VENDDUNS#.  
HL\*2\*1\*T.  
LIN\*\*PG\*PLT090.  
REF\*LS\*ZC22081523.  
HL\*3\*1\*O.  
LIN\*\*BP\*X0820483.  
SN1\*\*32000\*EA\*226000.  
PRF\*18400.  
CLD\*16\*2000\*CTN90.  
REF\*LS\*ZC22081523\*LT:999999999.  
HL\*4\*1\*T.  
LIN\*\*PG\*PLT090.  
REF\*LS\*ZC22081525.  
HL\*5\*1\*O.  
LIN\*\*BP\*X0820480.  
SN1\*\*86400\*EA\*433200.  
PRF\*18400.  
CLD\*72\*1200\*CTN90.  
REF\*LS\*ZC22081525\*LT:999999999.  
CTT\*5\*118400.  
SE\*33\*0001.  
GE\*1\*154.  
IEA\*1\*000000154.



EDI Packaging codes

| <b>Table 103<br/>Container Types (Packaging Codes X.12 element 103)</b> |                              |
|---|------------------------------|
| <b>Code</b>   | <b>Definition</b>            |
| BIN52   | Bin - Iron or Steel          |
| BIN79   | Bin - Plastic                |
| BOX25   | Box - Corrugated or Solid    |
| BOX79   | Box - Plastic                |
| CRT71   | Crate                        |
| CTN25   | Carton - Corrugated or Solid |
| MIX90   | Mixed Container Types        |
| PLT71   | Pallet                       |
| PLT79   | Pallets - Plastic            |
| RCK58   | Rack - Metal                 |
| SKD71   | Skid                         |

ASC X12 004010

# 103 Packaging Code

TYPE=AN MIN=3 MAX=5

Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required



|            |  |
|------------|--|
| <b>AMM</b> | Ammo Pack  |
| <b>AMP</b> | Ampoule  |
| <b>ATH</b> | Attachment   |
| <b>BAG</b> | Bag  |
| <b>BAL</b> | Bale   |
| <b>BBL</b> | Barrel   |
| <b>BDG</b> | Banding  |
| <b>BDL</b> | Bundle   |
| <b>BEM</b> | Beam   |
| <b>BIC</b> | Bing Chest   |
| <b>BIN</b> | Bin  |
| <b>BLK</b> | Bulk   |
| <b>BLT</b> | Belting  |
| <b>BOB</b> | Bobbin   |
| <b>BOT</b> | Bottle   |
| <b>BOX</b> | Box  |
| <b>BRC</b> | Bracing  |
| <b>BRG</b> | Barge  |
| <b>BSK</b> | Basket or hamper                                     |
| <b>BXI</b> | Box, with inner container                            |
| <b>BXT</b> | Bucket   |
| <b>CAB</b> | Cabinet  |
| <b>CAG</b> | Cage   |
| <b>CAN</b> | Can  |
| <b>CAR</b> | Carrier  |
| <b>CAS</b> | Case   |
| <b>CBC</b> | Containers of Bulk Cargo                             |
| <b>CBY</b> | Carboy   |
| <b>CCS</b> | Can Case   |
| <b>CHE</b> | Cheeses  |
| <b>CHS</b> | Chest  |
| <b>CLD</b> | Car Load, Rail                                       |
| <b>CNA</b> | Household Goods Container, Wood                      |
| <b>CNB</b> | Container, MAC-ISO, LT. WGT. 8x8x20 Foot Air         |
| <b>CNC</b> | Container, Navy Cargo Transporter                    |
| <b>CND</b> | Container, Commercial Highway Lift                   |
| <b>CNE</b> | Container, Engine                                    |
| <b>CNF</b> | Container, Multi-walled, Secured to Warehouse Pallet |
| <b>CNT</b> | Container  |
| <b>COL</b> | Coil   |
| <b>CON</b> | Cones  |



|            |                            |
|------------|----------------------------|
| <b>COR</b> | Core                       |
| <b>CRD</b> | Cradle                     |
| <b>CRF</b> | Corner Reinforcement       |
| <b>CRT</b> | Crate                      |
| <b>CSK</b> | Cask                       |
| <b>CTN</b> | Carton                     |
| <b>CX2</b> | CONEX                      |
| <b>CYL</b> | Cylinder                   |
| <b>DBK</b> | Dry Bulk                   |
| <b>DRK</b> | Double-length Rack         |
| <b>DRM</b> | Drum                       |
| <b>DSK</b> | Double-length Skid         |
| <b>DTB</b> | Double-length Tote Bin     |
| <b>DUF</b> | Duffelbag                  |
| <b>EGG</b> | Egg Crating                |
| <b>ENV</b> | Envelope                   |
| <b>EPR</b> | Edge Protection            |
| <b>FIR</b> | Firkin                     |
| <b>FLO</b> | Flo-bin                    |
| <b>FRM</b> | Frame                      |
| <b>FSK</b> | Flask                      |
| <b>FWR</b> | Forward Reel               |
| <b>HED</b> | Heads of Beef              |
| <b>HGH</b> | Hogshead                   |
| <b>HPR</b> | Hamper                     |
| <b>HPT</b> | Hopper Truck               |
| <b>HRB</b> | On Hanger or Rack in Boxes |
| <b>HRK</b> | Half-Standard Rack         |
| <b>HTB</b> | Half-Standard Tote Bin     |
| <b>INT</b> | Intermediate Container     |
| <b>JAR</b> | Jar                        |
| <b>KEG</b> | Keg                        |
| <b>KIT</b> | Kit                        |
| <b>KRK</b> | Knockdown Rack             |
| <b>KTB</b> | Knockdown Tote Bin         |
| <b>LBK</b> | Liquid Bulk                |
| <b>LID</b> | Lip/Top                    |
| <b>LIF</b> | Lifts                      |
| <b>LNR</b> | Liners                     |
| <b>LOG</b> | Log                        |
| <b>LSE</b> | Loose                      |



|            |                                  |
|------------|----------------------------------|
| <b>LUG</b> | Lug                              |
| <b>LVN</b> | Lift Van                         |
| <b>MIX</b> | Mixed Container Types            |
| <b>ML2</b> | MILVAN                           |
| <b>MRP</b> | Multi-Roll Pack                  |
| <b>MS2</b> | MSCVAN                           |
| <b>MXD</b> | Mixed                            |
| <b>NOL</b> | Noil                             |
| <b>PAF</b> | Pallet - 4 Way                   |
| <b>PAL</b> | Pail                             |
| <b>PAT</b> | Pallet - 2 Way                   |
| <b>PCK</b> | Packed - not otherwise specified |
| <b>PCS</b> | Pieces                           |
| <b>PIR</b> | Pirns                            |
| <b>PKG</b> | Package                          |
| <b>PLC</b> | Primary Lift Container           |
| <b>PLF</b> | Platform                         |
| <b>PLN</b> | Pipeline                         |
| <b>PLT</b> | Pallet                           |
| <b>POV</b> | Private Vehicle                  |
| <b>PRK</b> | Pipe Rack                        |
| <b>PRT</b> | Partitioning                     |
| <b>PWT</b> | Plastic-Wrapped Tray             |
| <b>QTR</b> | Quarter of Beef                  |
| <b>RAL</b> | Rail (Semiconductor)             |
| <b>RCK</b> | Rack                             |
| <b>REL</b> | Reel                             |
| <b>RFT</b> | Reinforcement                    |
| <b>ROL</b> | Roll                             |
| <b>RVR</b> | Reverse Reel                     |
| <b>SAK</b> | Sack                             |
| <b>SCS</b> | Suitcase                         |
| <b>SHK</b> | Shook                            |
| <b>SHT</b> | Sheet                            |
| <b>SID</b> | Side of Beef                     |
| <b>SKD</b> | Skid                             |
| <b>SKE</b> | Skid, elevating or lift truck    |
| <b>SLP</b> | Slip Sheet                       |
| <b>SLV</b> | Sleeve                           |
| <b>SPI</b> | Spin Cylinders                   |
| <b>SPL</b> | Spool                            |





|            |  |
|------------|--|
| <b>SPR</b> | Separator/Divider                        |
| <b>SRW</b> | Shrink Wrap                              |
| <b>STW</b> | Stretch Wrap                             |
| <b>SV2</b> | SEAVAN                                   |
| <b>TBE</b> | Tube                                     |
| <b>TBN</b> | Tote Bin                                 |
| <b>TKR</b> | Tank Car                                 |
| <b>TKT</b> | Tank Truck                               |
| <b>TLD</b> | Intermodal Trailer/Container Load (Rail) |
| <b>TNK</b> | Tank                                     |
| <b>TRC</b> | Tierce                                   |
| <b>TRK</b> | Trunk and Chest                          |
| <b>TRU</b> | Truck                                    |
| <b>TRY</b> | Tray                                     |
| <b>TSS</b> | Trunk, Salesmen Sample                   |
| <b>TUB</b> | Tub                                      |
| <b>UNP</b> | Unpacked                                 |
| <b>UNT</b> | Unit                                     |
| <b>VEH</b> | Vehicles                                 |
| <b>VIL</b> | Vial                                     |
| <b>VOC</b> | Vehicle in Operating Condition           |
| <b>VPK</b> | Van Pack                                 |
| <b>WHE</b> | On Own Wheel                             |
| <b>WLC</b> | Wheeled Carrier                          |
| <b>WRP</b> | Wrapped                                  |
| <b>01</b>  | Aluminum                                 |
| <b>04</b>  | As Specified by the DOT                  |
| <b>07</b>  | Burlap                                   |
| <b>10</b>  | Chemically Hardened Fibre                |
| <b>13</b>  | Cloth                                    |
| <b>16</b>  | Cloth Top                                |
| <b>19</b>  | Cloth or Fabric                          |
| <b>22</b>  | Compressed                               |
| <b>25</b>  | Corrugated or Solid                      |
| <b>28</b>  | Double-wall Paper                        |
| <b>31</b>  | Fibre                                    |
| <b>34</b>  | Fibre (Paperboard)                       |
| <b>37</b>  | Fiberboard                               |
| <b>40</b>  | Fiberboard Metal                         |
| <b>43</b>  | Glass                                    |
| <b>46</b>  | In Inner Containers                      |



|    |   |
|----|---|
| 48 | Wire/Cord                                   |
| 49 | Insulated                                   |
| 50 | Steel - Vinyl Coated                        |
| 51 | Wire Mesh                                   |
| 52 | Iron or Steel                               |
| 53 | Jumbo                                       |
| 54 | Special Jumbo                               |
| 55 | Lead  |
| 58 | Metal                                       |
| 59 | Metal Cans                                  |
| 61 | Moisture Resistant                          |
| 64 | Molded Plastic                              |
| 67 | Multiple-wall Paper (2 or more walls)       |
| 70 | Multiple-wall Paper (3 or more walls)       |
| 71 | Not Otherwise Specified                     |
| 72 | Paper - VCI                                 |
| 73 | Other than Glass                            |
| 74 | Other than Metal or Plastic Tubes, or Glass |
| 75 | Plastic - Vacuum Formed                     |
| 76 | Paper                                       |
| 77 | Plastic - Structural Foam                   |
| 78 | Plastic - Injection Molded                  |
| 79 | Plastic                                     |
| 80 | Polyethylene Lined                          |
| 81 | Plastic - Virgin                            |
| 82 | Pulpboard                                   |
| 83 | Plastic - Regrind                           |
| 84 | Polystyrene                                 |
| 85 | Rubber                                      |
| 86 | Foam  |
| 88 | Rubber and Fabric                           |
| 89 | Special                                     |
| 90 | Standard                                    |
| 91 | Stainless Steel                             |
| 92 | Tubes, Metal or Plastic                     |
| 94 | Wood  |
| 95 | Single Wall Corrugated Board                |
| 96 | Double Wall Corrugated Board                |
| 97 | Triple Wall Corrugated Board                |

