

# 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, 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.

## Notes:

3M Requires an Advanced Ship Notice based on presence of detail REF01 = "2H" and REF02 = "ASN" or "BOTH".

## Heading:

	<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>
M	010	ST	Transaction Set Header	M	1		
M	020	BSN	Beginning Segment for Ship Notice	M	1		
M	040	DTM	Date/Time Reference	M	10		

## Detail:

	<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>
			LOOP ID - HL			200000	
M	010	HL	Hierarchical Level - SHIPMENT LEVEL	M	1		c1
Not Used	020	LIN	Item Identification	O	1		
Not Used	030	SN1	Item Detail (Shipment)	O	1		
Not Used	040	SLN	Subline Item Detail	O	1000		
Not Used	050	PRF	Purchase Order Reference	O	1		
Not Used	060	PO4	Item Physical Details	O	1		
Not Used	070	PID	Product/Item Description	O	200		
Not Used	080	MEA	Measurements	O	40		
Not Used	090	PWK	Paperwork	O	25		
Not Used	100	PKG	Marking, Packaging, Loading	O	25		
M	110	TD1	Carrier Details (Quantity and Weight)	M	20		
Not Used	120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
M	130	TD3	Carrier Details (Equipment)	M	12		
Not Used	140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		
Not Used	145	TSD	Trailer Shipment Details	O	1		
M	150	REF	Reference Identification	M	>1		
Not Used	151	PER	Administrative Communications Contact	O	3		
			LOOP ID - LH1			100	
Not Used	152	LH1	Hazardous Identification Information	O	1		

Not Used	153	LH2	Hazardous Classification Information	O	4
Not Used	154	LH3	Hazardous Material Shipping Name	O	12
Not Used	155	LFH	Freeform Hazardous Material Information	O	20
Not Used	156	LEP	EPA Required Data	O	>1
Not Used	157	LH4	Canadian Dangerous Requirements	O	1
Not Used	158	LHT	Transborder Hazardous Requirements	O	3
Not Used	159	LHR	Hazardous Material Identifying Reference Numbers	O	10
Not Used	160	PER	Administrative Communications Contact	O	5
Not Used	161	LHE	Empty Equipment Hazardous Material Information	O	1
<b>LOOP ID - CLD</b>					<b>200</b>
Not Used	170	CLD	Load Detail	O	1
Not Used	180	REF	Reference Identification	O	200
Not Used	185	DTP	Date or Time or Period	O	1
Not Used	190	MAN	Marks and Numbers	O	>1
M	200	DTM	Date/Time Reference	M	10
M	210	FOB	F.O.B. Related Instructions	M	1
Not Used	215	PAL	Pallet Information	O	1
<b>LOOP ID - N1</b>					<b>200</b>
M	220	N1	Name	M	1
Not Used	230	N2	Additional Name Information	O	2
Not Used	240	N3	Address Information	O	2
Not Used	250	N4	Geographic Location	O	1
Not Used	260	REF	Reference Identification	O	12
Not Used	270	PER	Administrative Communications Contact	O	3
Not Used	280	FOB	F.O.B. Related Instructions	O	1
Not Used	290	SDQ	Destination Quantity	O	50
Not Used	300	ETD	Excess Transportation Detail	O	1
Not Used	310	CUR	Currency	O	1
<b>LOOP ID - SAC</b>					<b>&gt;1</b>
Not Used	320	SAC	Service, Promotion, Allowance, or Charge Information	O	1
Not Used	325	CUR	Currency	O	1
Not Used	330	GF	Furnished Goods and Services	O	1
Not Used	335	YNQ	Yes/No Question	O	10
<b>LOOP ID - LM</b>					<b>10</b>
Not Used	340	LM	Code Source Information	O	1
Not Used	350	LQ	Industry Code	M	100
<b>LOOP ID - V1</b>					<b>&gt;1</b>
Not Used	360	V1	Vessel Identification	O	1
Not Used	370	R4	Port or Terminal	O	>1
Not Used	380	DTM	Date/Time Reference	O	>1
<b>LOOP ID - HL</b>					<b>200000</b>
M	010	HL	Hierarchical Level - ORDER LEVEL	M	1
Not Used	020	LIN	Item Identification	O	1
Not Used	030	SN1	Item Detail (Shipment)	O	1
Not Used	040	SLN	Subline Item Detail	O	1000
M	050	PRF	Purchase Order Reference	M	1
Not Used	060	PO4	Item Physical Details	O	1
Not Used	070	PID	Product/Item Description	O	200

Not Used	080	MEA	Measurements	O	40
Not Used	090	PWK	Paperwork	O	25
Not Used	100	PKG	Marking, Packaging, Loading	O	25
Not Used	110	TD1	Carrier Details (Quantity and Weight)	O	20
Not Used	120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12
Not Used	130	TD3	Carrier Details (Equipment)	O	12
Not Used	140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5
Not Used	145	TSD	Trailer Shipment Details	O	1
	150	REF	Reference Identification	O	>1
Not Used	151	PER	Administrative Communications Contact	O	3
<b>LOOP ID - LH1</b>					<b>100</b>
Not Used	152	LH1	Hazardous Identification Information	O	1
Not Used	153	LH2	Hazardous Classification Information	O	4
Not Used	154	LH3	Hazardous Material Shipping Name	O	12
Not Used	155	LFH	Freeform Hazardous Material Information	O	20
Not Used	156	LEP	EPA Required Data	O	>1
Not Used	157	LH4	Canadian Dangerous Requirements	O	1
Not Used	158	LHT	Transborder Hazardous Requirements	O	3
Not Used	159	LHR	Hazardous Material Identifying Reference Numbers	O	10
Not Used	160	PER	Administrative Communications Contact	O	5
Not Used	161	LHE	Empty Equipment Hazardous Material Information	O	1
<b>LOOP ID - CLD</b>					<b>200</b>
Not Used	170	CLD	Load Detail	O	1
Not Used	180	REF	Reference Identification	O	200
Not Used	185	DTP	Date or Time or Period	O	1
Not Used	190	MAN	Marks and Numbers	O	>1
Not Used	200	DTM	Date/Time Reference	O	10
Not Used	210	FOB	F.O.B. Related Instructions	O	1
Not Used	215	PAL	Pallet Information	O	1
<b>LOOP ID - N1</b>					<b>200</b>
Not Used	220	N1	Name	O	1
Not Used	230	N2	Additional Name Information	O	2
Not Used	240	N3	Address Information	O	2
Not Used	250	N4	Geographic Location	O	1
Not Used	260	REF	Reference Identification	O	12
Not Used	270	PER	Administrative Communications Contact	O	3
Not Used	280	FOB	F.O.B. Related Instructions	O	1
Not Used	290	SDQ	Destination Quantity	O	50
Not Used	300	ETD	Excess Transportation Detail	O	1
Not Used	310	CUR	Currency	O	1
<b>LOOP ID - SAC</b>					<b>&gt;1</b>
Not Used	320	SAC	Service, Promotion, Allowance, or Charge Information	O	1
Not Used	325	CUR	Currency	O	1
Not Used	330	GF	Furnished Goods and Services	O	1
Not Used	335	YNQ	Yes/No Question	O	10
<b>LOOP ID - LM</b>					<b>10</b>
Not Used	340	LM	Code Source Information	O	1
Not Used	350	LQ	Industry Code	M	100

LOOP ID - V1			>1
Not Used	360	V1	Vessel Identification O 1
Not Used	370	R4	Port or Terminal O >1
Not Used	380	DTM	Date/Time Reference O >1
LOOP ID - HL			200000
M	010	HL	Hierarchical Level - ITEM LEVEL M 1
Must Use	020	LIN	Item Identification O 1
M	030	SN1	Item Detail (Shipment) M 1
	040	SLN	Subline Item Detail O 1000
Not Used	050	PRF	Purchase Order Reference O 1
Not Used	060	PO4	Item Physical Details O 1
	070	PID	Product/Item Description O 200
Not Used	080	MEA	Measurements O 40
Not Used	090	PWK	Paperwork O 25
Not Used	100	PKG	Marking, Packaging, Loading O 25
M	110	TD1	Carrier Details (Quantity and Weight) M 2
Not Used	120	TD5	Carrier Details (Routing Sequence/Transit Time) O 12
Not Used	130	TD3	Carrier Details (Equipment) O 12
Not Used	140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both) O 5
Not Used	145	TSD	Trailer Shipment Details O 1
	150	REF	Reference Identification O >1
Not Used	151	PER	Administrative Communications Contact O 3
LOOP ID - LH1			100
Not Used	152	LH1	Hazardous Identification Information O 1
Not Used	153	LH2	Hazardous Classification Information O 4
Not Used	154	LH3	Hazardous Material Shipping Name O 12
Not Used	155	LFH	Freeform Hazardous Material Information O 20
Not Used	156	LEP	EPA Required Data O >1
Not Used	157	LH4	Canadian Dangerous Requirements O 1
Not Used	158	LHT	Transborder Hazardous Requirements O 3
Not Used	159	LHR	Hazardous Material Identifying Reference Numbers O 10
Not Used	160	PER	Administrative Communications Contact O 5
Not Used	161	LHE	Empty Equipment Hazardous Material Information O 1
LOOP ID - CLD			200
Not Used	170	CLD	Load Detail O 1
Not Used	180	REF	Reference Identification O 200
Not Used	185	DTP	Date or Time or Period O 1
Not Used	190	MAN	Marks and Numbers O >1
	200	DTM	Date/Time Reference O 10
Not Used	210	FOB	F.O.B. Related Instructions O 1
Not Used	215	PAL	Pallet Information O 1
LOOP ID - N1			200
Not Used	220	N1	Name O 1
Not Used	230	N2	Additional Name Information O 2
Not Used	240	N3	Address Information O 2
Not Used	250	N4	Geographic Location O 1
Not Used	260	REF	Reference Identification O 12
Not Used	270	PER	Administrative Communications Contact O 3

Not Used	280	FOB	F.O.B. Related Instructions	O	1
Not Used	290	SDQ	Destination Quantity	O	50
Not Used	300	ETD	Excess Transportation Detail	O	1
Not Used	310	CUR	Currency	O	1
LOOP ID - SAC					>1
Not Used	320	SAC	Service, Promotion, Allowance, or Charge Information	O	1
Not Used	325	CUR	Currency	O	1
Not Used	330	GF	Furnished Goods and Services	O	1
Not Used	335	YNQ	Yes/No Question	O	10
LOOP ID - LM					10
Not Used	340	LM	Code Source Information	O	1
Not Used	350	LQ	Industry Code	M	100
LOOP ID - V1					>1
Not Used	360	V1	Vessel Identification	O	1
Not Used	370	R4	Port or Terminal	O	>1
Not Used	380	DTM	Date/Time Reference	O	>1

### 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>
M	010	CTT	Transaction Totals	M	1		n1
M	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.

### Transaction Set Comments

1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

**Segment:** **ST** Transaction Set Header  
**Position:** 010  
**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:**  
**Business Rules:** Variable Name: STST

**Data Element Summary**

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

**Segment:** **BSN** Beginning Segment for Ship Notice  
**Position:** 020  
**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:** 1 If BSN07 is present, then BSN06 is required.  
**Semantic Notes:** 1 BSN03 is the date the shipment transaction set is created.  
 2 BSN04 is the time the shipment transaction set is created.  
 3 BSN06 is limited to shipment related codes.  
**Comments:** 1 BSN06 and BSN07 differentiate the functionality of use for the transaction set.  
**Notes:** Only one ASN should be created per shipment, per container, and the ASN details must match the physical shipment.

ASN should be sent to 3M 24 hours prior to the shipment arriving at 3M dock.

Example: BSN\*00\*SRJ94723\*20130707\*1632~

#### Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	BSN01	353	<b>Transaction Set Purpose Code</b>	M ID 2/2
			Code identifying purpose of transaction set	
			00 Original	
M	BSN02	396	<b>Shipment Identification</b>	M AN 2/30
			A unique control number assigned by the original shipper to identify a specific shipment	
			3M allows for 16 character shipment number. If shipment number sent is longer, 3M will use the first 16 characters.	
M	BSN03	373	<b>Date</b>	M DT 8/8
			Date expressed as CCYYMMDD	
M	BSN04	337	<b>Time</b>	M TM 4/8
			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)	

**Segment:** **DTM** Date/Time Reference  
**Position:** 040  
**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.
- 3 If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:**

Date material is expected to be delivered at 3M destination.

Example: DTM\*002\*20130708~

**Data Element Summary**

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
M	DTM01	374	Date/Time Qualifier	M ID 3/3
			Code specifying type of date or time, or both date and time	
		002	Delivery Requested	
			Date material is expected to be delivered at 3M destination.	
	DTM02	373	Date	X DT 8/8
			Date expressed as CCYYMMDD	



**Segment:** **HL** Hierarchical Level - SHIPMENT LEVEL  
**Position:** 010  
**Loop:** HL Mandatory  
**Level:** Detail  
**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.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

**Notes:** Example: HL\*1\*\*S~

#### Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	HL01	628 Hierarchical ID Number	M AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
		The value for the Shipment level is 1.	
M	HL03	735 Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		S Shipment	

**Segment:** **TD1** Carrier Details (Quantity and Weight)  
**Position:** 110  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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.
- 2 If TD103 is present, then TD104 is required.
- 3 If TD106 is present, then TD107 is required.
- 4 If either TD107 or TD108 is present, then the other is required.
- 5 If either TD109 or TD110 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:** Example: TD1\*CTN\*2~

**Data Element Summary**

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	TD101	103 Packaging Code	M AN 3/5
		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	
		CTN Carton	
		MIX Mixed Container Types	
		More than one type of container is included in a shipment (shipment could consist of 3 pieces that include 1 box, 1 crate, and 1 basket)	
		PKG Package	
		PLT Pallet	
M	TD102	80 Lading Quantity	M N0 1/7
		Number of units (pieces) of the lading commodity	
		3M restricts length of this field to 5 digits.	
		Number of packages.	

**Segment:** **TD3** Carrier Details (Equipment)  
**Position:** 130  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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.
- 3 If TD304 is present, then TD305 is required.
- 4 If either TD305 or TD306 is present, then the other is required.

**Semantic Notes:**  
**Comments:**  
**Notes:** Example: TD3\*TF\*\*987654896~

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>	<u>Equipment Description Code</u>	<u>X ID 2/2</u>
TD301	40	Code identifying type of equipment used for shipment	
		2B 20 ft. IL Container (Closed Top) Use if 3M Means of Transport ID is CONT20.	
		4B 40 ft. IL Container (Closed Top) Use if 3M Means of Transport ID is CONT40.	
		AF Air Freight (Break Bulk) Use if 3M Means of Transport ID is AIRTK.	
		FT Flat Bed Trailer Use if 3M Means of Transport ID is FLAT53.	
		TA Trailer, Heated/Insulated/Ventilated Use if 3M Means of Transport ID is HEAT53 or TMHT53.	
		TF Trailer, Dry Freight Use if 3M Means of Transport ID is DRY53 or TMDR53.	
		TN Tank Car Use if 3M Means of Transport ID is TANK48 or TANK45.	
		TV Truck, Van Use if 3M Means of Transport ID is PIGG48 or PIGG53.	
		TW Trailer, Refrigerated A refrigerated trailer capable of keeping product cold. Different from a temperature controlled trailer which is able to keep product at a constant temperature Use if 3M Means of Transport ID is REFR53 or TMRF53.	
TD303	207	<b>Equipment Number</b> Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) If equipment number exceeds 10 characters, please send in Shipment level REF segment with REF01 = EQ.	<b>X AN 1/10</b>

**Segment:** **REF** Reference Identification  
**Position:** 150  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 REF04 contains data relating to the value cited in REF02.

**Comments:**  
**Notes:** Example: REF\*BM\*BOL389247394~

**Data Element Summary**

Ref.	Data Element	Name	Attributes
M	REF01	128 Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		BM Bill of Lading Number	
		Required by 3M.	
		Bill of Lading cannot have any special characters.	
		If there isn't a Bill of Lading Number, for the freight types below use the following information as Bill of Lading:	
		Small Parcel –tracking number	
		Full Truckload –trailer and seal number	
		Less-than-Truckload –pro number	
		Ocean –container number	
		Air –airway bill	
		EQ Equipment Number	
		Use only if the equipment number exceeds the 10 characters allowed in the TD303.	
	REF02	127 Reference Identification	X AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

**Segment:** **DTM** **Date/Time Reference**  
**Position:** 200  
**Loop:** HL Mandatory  
**Level:** Detail  
**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.
- 3 If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:** Example: DTM\*017\*20130728~

**Data Element Summary**

Ref.	Data Element	Name	Attributes
M	DTM01	Date/Time Qualifier	M ID 3/3
		Code specifying type of date or time, or both date and time	
		017 Estimated Delivery	
		Represents the Vendor's best estimate of the delivery date to 3M warehouse/location.	
	DTM02	Date	X DT 8/8
		Date expressed as CCYYMMDD	

**Segment:** **FOB** F.O.B. Related Instructions  
**Position:** 210  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To specify transportation instructions relating to shipment  
**Syntax Notes:**

- 1 If FOB03 is present, then FOB02 is required.
- 2 If FOB04 is present, then FOB05 is required.
- 3 If FOB07 is present, then FOB06 is required.
- 4 If FOB08 is present, then FOB09 is required.

**Semantic Notes:**

- 1 FOB01 indicates which party will pay the carrier.
- 2 FOB02 is the code specifying transportation responsibility location.
- 3 FOB06 is the code specifying the title passage location.
- 4 FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

**Comments:**  
**Notes:** Example: FOB\*PP\*PB\*AT DOCK\*01\*EXW~

**Data Element Summary**

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
M	FOB01	146 <b>Shipment Method of Payment</b>	M ID 2/2
		Code identifying payment terms for transportation charges	
		CC Collect	
		PP Prepaid (by Seller)	
	FOB02	309 <b>Location Qualifier</b>	X ID 1/2
		Code identifying type of location	
		DE Destination (Shipping)	
		FV Free Alongside Vessel (Free On Board [F.O.B.] Point)	
		OR Origin (Shipping Point)	
		OV On Vessel (Free On Board [FOB] point)	
		PB Port of Discharge	
		Port where shipment is unloaded	
		PD Place of Delivery	
		ZZ Mutually Defined	
	FOB03	352 <b>Description</b>	O AN 1/80
		A free-form description to clarify the related data elements and their content	
	FOB04	334 <b>Transportation Terms Qualifier Code</b>	O ID 2/2
		Code identifying the source of the transportation terms	
		01 Incoterms	
	FOB05	335 <b>Transportation Terms Code</b>	X ID 3/3
		Code identifying the trade terms which apply to the shipment transportation responsibility	
		CFR Cost and Freight	
		Seller pays cost and freight to named port of destination; buyer assumes all risks of loss and damage and additional costs incurred once goods are delivered on board the vessel; these are assumed by the buyer when the goods pass over the rail of the ship at the port of shipment	
		CIF Cost, Insurance, and Freight	
		Seller pays cost and freight to named port of destination; buyer assumes all risks of loss and damage and additional costs incurred once goods are delivered onboard the vessel; risks are assumed by the buyer when the goods pass over the rail of the ship at the port of shipment; seller	

must in addition procure (i.e. contract and pay for) marine insurance against the buyer's risk of loss or damage during shipment

CIP	<p>Carriage and Insurance Paid To</p> <p>Seller pays cost and freight to named port of destination; buyer assumes all risk of damage or loss and additional costs incurred once goods are delivered on board the vessel; these risks are assumed by the buyer when the goods pass over the rail of the ship at the port of shipment; seller must procure (i.e. contract and pay for) marine insurance against the buyer's risk of loss or damage during carriage; seller must in addition procure (i.e. contract and pay for) cargo insurance against the buyer's risk of loss or damage to the goods during carriage</p>
CPT	<p>Carriage Paid To</p> <p>Seller pays freight charges named to destination; the risk of loss or damage to the goods, as well as any additional costs due to events occurring after the time the goods have been delivered to other carrier, is transferred from the seller to the buyer when the goods have been delivered into the custody of the carrier</p>
DDP	<p>Delivered Duty Paid</p> <p>Seller bears costs and risks involved in bringing goods to the named place in the country of importation including duties, taxes, and other official charges payable upon import</p>
EXW	<p>Ex Works</p> <p>Buyer bears all costs and risks in taking the goods from the seller's premises to the desired location</p>
FAS	<p>Free Alongside Ship</p> <p>Seller's obligation ends when goods have been placed alongside the vessel on the quay or in lighters at the named port of shipment; buyer bears all costs and risks thereafter</p>
FCA	<p>Free Carrier</p> <p>Seller fulfills his obligation when goods are handed over, cleared for export, and into the charge of the carrier named by the buyer at the named place or location</p>
FOB	<p>Free on Board</p>
ZZZ	<p>Mutually Defined</p>

Used if the incoterms code is DAP or DAT. These incoterms codes were added in 2010 and are not available in the ANSI 004010 standard. The incoterms codes "DAP" or "DAT" is sent in the FOB07.

**FOB06 309 Location Qualifier X ID 1/2**

Code identifying type of location

This field will only be populated if the incoterms code, "DAP" or "DAT" will be sent in FOB07.

ZZ Mutually Defined

**FOB07 352 Description O AN 1/80**

A free-form description to clarify the related data elements and their content

This field will only be populated if the incoterms code = "DAP" or "DAT". These incoterms codes were added in 2010 and are not available in the ANSI 004010 standard. Send "ZZZ" in the FOB05 to indicate that the FOB07 field contains the incoterms code.

**Segment:** **N1** Name  
**Position:** 220  
**Loop:** N1 Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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:** 1 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.  
 2 N105 and N106 further define the type of entity in N101.  
**Notes:** Example: N1\*VN\*TEST VENDOR\*92\*1000065~  
 N1\*CA\*TEST VENDOR\*92\*6100001~

**Data Element Summary**

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		CA Carrier	
		Please visit <a href="https://www.3m.com/3M/en_US/suppliers-direct/suppliers/shipping-transportation/">https://www.3m.com/3M/en_US/suppliers-direct/suppliers/shipping-transportation/</a> Then Select Country	
		* Required by 3M if 3M will pay freight charges. * Highly recommended if vendor will pay freight charges and carrier is on the 3M carrier list. * Not required if vendor is paying freight and carrier is not on the 3M carrier list.	
		VN Vendor	
		Required by 3M. Return value sent on PO.	
	N102	93 Name	X AN 1/60
		Free-form name	
M	N103	66 Identification Code Qualifier	M ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		92 Assigned by Buyer or Buyer's Agent	
M	N104	67 Identification Code	M AN 2/80
		Code identifying a party or other code	
		3M restricts the length of this field to 10 characters.	



**Segment:** **HL** Hierarchical Level - ORDER LEVEL  
**Position:** 010  
**Loop:** HL Mandatory  
**Level:** Detail  
**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.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

**Notes:** Example: HL\*2\*1\*O~

#### Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	HL01	628 Hierarchical ID Number	M AN 1/12
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
M	HL02	734 Hierarchical Parent ID Number	M AN 1/12
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	
M	HL03	735 Hierarchical Level Code	M ID 1/2
		Code defining the characteristic of a level in a hierarchical structure	
		O	Order

**Segment:** **PRF** Purchase Order Reference  
**Position:** 050  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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:**  
**Notes:** Example: PRF\*4800002559~

**Data Element Summary**

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PRF01	324 Purchase Order Number	M AN 1/22
		Identifying number for Purchase Order assigned by the orderer/purchaser	

**Segment:** **REF** Reference Identification  
**Position:** 150  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** >1  
**Purpose:** To specify identifying information  
**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 REF04 contains data relating to the value cited in REF02.

**Comments:**  
**Notes:** Example: REF\*IV\*324739847~

**Data Element Summary**

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128 Reference Identification Qualifier Code qualifying the Reference Identification CT Contract Number IV Seller's Invoice Number Required if material is crossing international borders.	M ID 2/3
	REF02	127 Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

**Segment:** **HL** Hierarchical Level - ITEM LEVEL  
**Position:** 010  
**Loop:** HL Mandatory  
**Level:** Detail  
**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.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

**Notes:** HL is required for each LIN loop.  
Example: HL\*3\*2\*I~

#### Data Element Summary

Ref.	Data Des.	Element	Name	Attributes
M	HL01	628	<b>Hierarchical ID Number</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M AN 1/12
M	HL02	734	<b>Hierarchical Parent ID Number</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	M AN 1/12
M	HL03	735	<b>Hierarchical Level Code</b> Code defining the characteristic of a level in a hierarchical structure I Item	M ID 1/2

**Segment:** **LIN** **Item Identification**  
**Position:** 020  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional (Must Use)  
**Max Use:** 1  
**Purpose:** To specify basic item identification data  
**Syntax Notes:**

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

**Semantic Notes:**

- 1 LIN01 is the line item identification

**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.

**Notes:** Required by 3M.  
If the PO line item did not contain a buyer part number (BP) or a vendor part number (VP), please send VP in LIN02 and NA in LIN03.  
LIN\*10\*BP\*0000000071\*VP\*VENDORSKU~

**Data Element Summary**

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
LIN01	350	<b>Assigned Identification</b>		O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set		
		Return the item number sent in PO.		
M	LIN02	<b>Product/Service ID Qualifier</b>		M ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		BP Buyer's Part Number		
M	LIN03	<b>Product/Service ID</b>		M AN 1/48
		Identifying number for a product or service		
	LIN04	<b>Product/Service ID Qualifier</b>		X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		VP Vendor's (Seller's) Part Number		
	LIN05	<b>Product/Service ID</b>		X AN 1/48
		Identifying number for a product or service		

**Segment:** **SN1** Item Detail (Shipment)  
**Position:** 030  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**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.  
**Notes:** EXample: SN1\*10\*240\*EA~

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u> <u>Name</u>	
	SN101	<b>350 Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set	<b>O AN 1/20</b>
M	SN102	<b>382 Number of Units Shipped</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	<b>M R 1/10</b>
M	SN103	<b>355 Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	<b>M ID 2/2</b>

<b>Segment:</b>	<b>SLN</b> Subline Item Detail
<b>Position:</b>	040
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1000
<b>Purpose:</b>	To specify product subline detail item data
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If either SLN04 or SLN05 is present, then the other is required.</li> <li>2 If SLN07 is present, then SLN06 is required.</li> <li>3 If SLN08 is present, then SLN06 is required.</li> <li>4 If either SLN09 or SLN10 is present, then the other is required.</li> <li>5 If either SLN11 or SLN12 is present, then the other is required.</li> <li>6 If either SLN13 or SLN14 is present, then the other is required.</li> <li>7 If either SLN15 or SLN16 is present, then the other is required.</li> <li>8 If either SLN17 or SLN18 is present, then the other is required.</li> <li>9 If either SLN19 or SLN20 is present, then the other is required.</li> <li>10 If either SLN21 or SLN22 is present, then the other is required.</li> <li>11 If either SLN23 or SLN24 is present, then the other is required.</li> <li>12 If either SLN25 or SLN26 is present, then the other is required.</li> <li>13 If either SLN27 or SLN28 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 SLN01 is the identifying number for the subline item.</li> <li>2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.</li> <li>3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.</li> <li>4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 See the Data Element Dictionary for a complete list of IDs.</li> <li>2 SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.</li> <li>3 SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.</li> </ol>
<b>Notes:</b>	<p>Used on subcontracting POs only.</p> <p>Vendor must return all components on the ASN as specified on the PO. If 1 or more of the components are not consumed, the vendor should send the segment for the component with 0(zero) quantity and the UoM of the component. SLN*1**I*4749*EA****A7*3000005898~</p>

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SLN01	350 Assigned Identification	M AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
M	SLN03	662 Relationship Code	M ID 1/1
		Code indicating the relationship between entities	
		I Included	
	SLN04	380 Quantity	X R 1/15
		Numeric value of quantity	
	SLN05	C001 Composite Unit of Measure	X
		To identify a composite unit of measure (See Figures Appendix for examples of use)	
M	C00101	355 Unit or Basis for Measurement Code	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	SLN09	235 Product/Service ID Qualifier	X ID 2/2

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

A7 Subline Item Number

A further subdivision of a contract or exhibit line item that identifies a specific part of that contract or exhibit line item

**SLN10 234 Product/Service ID X AN 1/48**

Identifying number for a product or service

**SLN11 235 Product/Service ID Qualifier X ID 2/2**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

B8 Batch Number

The 3M number which came with the component that was shipped to manufacture the finished or semi-finished item

**SLN12 234 Product/Service ID X AN 1/48**

Identifying number for a product or service



<b>Segment:</b>	<b>PID</b> Product/Item Description
<b>Position:</b>	070
<b>Loop:</b>	HL Mandatory
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	200
<b>Purpose:</b>	To describe a product or process in coded or free-form format
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If PID04 is present, then PID03 is required.</li> <li>2 At least one of PID04 or PID05 is required.</li> <li>3 If PID07 is present, then PID03 is required.</li> <li>4 If PID08 is present, then PID04 is required.</li> <li>5 If PID09 is present, then PID05 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 Use PID03 to indicate the organization that publishes the code list being referred to.</li> <li>2 PID04 should be used for industry-specific product description codes.</li> <li>3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.</li> <li>4 PID09 is used to identify the language being used in PID05.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.</li> <li>2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.</li> <li>3 PID07 specifies the individual code list of the agency specified in PID03.</li> </ol>
<b>Notes:</b>	Example: PID*F****4032 SCOTCHMOUNT DEL-CTD FOAMTAPE 76MMX~

#### Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	PID01	349 Item Description Type	M ID 1/1
		Code indicating the format of a description	
		F Free-form	
	PID05	352 Description	X AN 1/80
		A free-form description to clarify the related data elements and their content	

**Segment:** **TD1** Carrier Details (Quantity and Weight)  
**Position:** 110  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Mandatory  
**Max Use:** 2  
**Purpose:** To specify the transportation details relative to commodity, weight, and quantity  
**Syntax Notes:**

- 1 If TD101 is present, then TD102 is required.
- 2 If TD103 is present, then TD104 is required.
- 3 If TD106 is present, then TD107 is required.
- 4 If either TD107 or TD108 is present, then the other is required.
- 5 If either TD109 or TD110 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:**

3M requires 2 TD1 segments, one with a TD106 of "G" and another with a TD106 of "E".

Example: TD1\*\*\*\*\*E\*25\*KG\*120\*CO~  
 TD1\*\*\*\*\*G\*252\*KG\*120\*CO~

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	TD106	187	<b>Weight Qualifier</b> Code defining the type of weight E Estimated Net Weight G Gross Weight	M ID 1/2
M	TD107	81	<b>Weight</b> Numeric value of weight	M R 1/10
M	TD108	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/2
	TD109	183	<b>Volume</b> Value of volumetric measure	X R 1/8
	TD110	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2

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

**Position:** 150

**Loop:** HL Mandatory

**Level:** Detail

**Usage:** Optional

**Max Use:** >1

**Purpose:** To specify identifying information

**Syntax Notes:**

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:**

- 1 REF04 contains data relating to the value cited in REF02.

**Comments:**

**Notes:**

Only 1 vendor batch allowed per item level HL loop. If more than 1 batch for PO line item, repeat HL loop for that item as many times as necessary.

Batch Number Field in 3M systems limited to 10 characters and must be alpha numeric. If vendor batch exceeds 10 characters, 3M will use the last 10 characters.

Batch number cannot begin with the number zero or include special characters.

Example: REF\*BT\*348384~

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier	M ID 2/3
			Code qualifying the Reference Identification	
			BT Batch Number	
			Vendor's Batch or Lot Number of material being delivered, if applicable.	
			Required if material is batch managed. For 3M USA PO's only, the PO line item text will advise if material is batch managed.	
	REF02	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

**Segment:** **DTM** Date/Time Reference  
**Position:** 200  
**Loop:** HL Mandatory  
**Level:** Detail  
**Usage:** Optional  
**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.
- 3 If either DTM05 or DTM06 is present, then the other is required.

**Semantic Notes:**

**Comments:**

**Notes:**

If material is batch managed, the production/manufacture date (094) is required.

If shelf life (SLED/BBD) is relevant for material, the shelf life expiration date (511) is required.

Example: DTM\*094\*20130524~  
DTM \*511\*20170414~

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	<b>DTM01</b>	<b>374 Date/Time Qualifier</b>	<b>M ID 3/3</b>
		Code specifying type of date or time, or both date and time	
		094 Manufacture	
		511 Shelf Life Expiration	
	<b>DTM02</b>	<b>373 Date</b>	<b>X DT 8/8</b>
		Date expressed as CCYYMMDD	

**Segment:** **CTT** Transaction Totals  
**Position:** 010  
**Loop:**  
**Level:** Summary  
**Usage:** Mandatory  
**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.  
**Notes:** Example: CTT\*3~

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	CTT01	354	Number of Line Items	M N0 1/6
			Total number of line items in the transaction set	

**Segment:** **SE** Transaction Set Trailer  
**Position:** 020  
**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

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

# APPENDIX

## Transaction Example:

ISA\*00\* \*00\* \*ZZ\* IDSENDERID \*12\*  
IDRECEIVERID \*150521\*1050\*U\*00401\*952200105\*0\*P\*>  
GS\*SH\* IDSENDERID \* IDRECEIVERID \*CCYMMDD\*1050\*952200105\*X\*004010  
ST\*856\*0560  
BSN\*00\*SHIPMENTNUMBER\*CCYMMDD\*HHMM  
DTM\*002\*CCYMMDD  
HL\*1\*\*S  
TD1\*PKG\*1  
TD3\*TV\*\*EQUIPMENTNUMBER  
REF\*BM\*BILLOFLADINGNUMBER  
DTM\*017\*CCYMMDD  
FOB\*CC\*DE\*DESCRIPTION\*01\*EXW\*ZZ\*DESCRIPTION  
N1\*VN\*VENDOR NAME\*92\*VENDORNUMBER  
N1\*CA\*CARRIER NAME\*92\*CARRIERNUMBER  
HL\*2\*1\*O  
PRF\*3MPONUMBER  
HL\*3\*2\*I  
LIN\*00010\*BP\*3MPARTNUMBER\*VP\*VENDORPARTNUMBER  
SN1\*00010\*NUMBEROFUNITSSHIPPED\*UNITOFMEASURE  
PID\*F\*\*\*\*LINE ITEM DESCRIPTION  
TD1\*\*\*\*\*G\*100\*LB\*120\*LB  
TD1\*\*\*\*\*E\*95\*LB\*120\*LB  
CTT\*3  
SE\*20\*0560  
GE\*1\*952200105  
IEA\*1\*952200105