# PolyOne Mapping Standards
### X12 v4010  850 Purchase Order

## VERSION: 1.0 DRAFT

**Author:**              **PolyOne**
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# 850 Purchase Order

This Draft Standard for Trial Use contains the format and establishes the data contents of the Purchase Order Transaction Set (850) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the placement of purchase orders for goods and services. This transaction set should not be used to convey purchase order changes or purchase order acknowledgment information.
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## Heading: *** Bold Segments Are Currently Being Utilized By PolyOne ***

| POS | ID | Segment Name | Req | Max Use | Repeat | Notes |
|-----|-----|--------------|-----|---------|--------|-------|
| **010** | **ST** | **Transaction Set Header** | **M** | **1** | | |
| **020** | **BEG** | **Beginning Segment for Purchase Order** | **M** | **1** | | |
| **040** | **CUR** | **Currency** | **O** | **1** | | |
| 050 | REF | Reference Identification | O | >1 | | |
| 070 | TAX | Tax Reference | O | >1 | | |
| 080 | FOB | F.O.B. Related Instructions | O | >1 | | |
| 130 | ITD | Terms Of Sale/Deferred Terms Of Sale | O | >1 | | |
| 150 | DTM | Date/Time Reference | O | 10 | | |
| 210 | PKW | Paperwork | O | 25 | | |
| 220 | PKG | Marking,Packaging,Loading | O | 200 | | |
| 240 | TD5 | Carrier Details | | | | |
| **LOOP ID – N9** | | | | | | . |
| 295 | N9 | Reference Identification | O | 1 | | |
| 300 | MSG | Message Text | O | 1000 | | |
| **LOOP ID – N1** | | | | | | . |
| **310** | **N1** | **Name** | **O** | **1** | | |
| **320** | **N2** | **Address Name Information** | **O** | **2** | | |
| **330** | **N3** | **Address Information** | **O** | **2** | | |
| **340** | **N4** | **Geographic Location** | **O** | **>1** | | |
| 360 | PER | Administrative Communications Contact | O | >1 | | |

## Detail:

| POS | ID | Segment Name | Req | Max Use | Repeat | Notes |
|-----|-----|--------------|-----|---------|--------|-------|
| **LOOP ID – PO1** | | | | | | . |
| **010** | **PO1** | **Baseline Item Data** | **M** | **1** | | |
| **LOOP ID - PID** | | | | | | |
| 050 | PID | Product/Item Description | O | 1 | | |
| 060 | MEA | Measurements | O | 1000 | | |
| 070 | PWK | Paperwork | O | 25 | | |
| 100 | REF | Reference Identification | O | >1 | | |

# Detail - Cont:

| POS | ID | Segment Name | Req | Max Use | Repeat | Notes |
|-----|-----|-------------|-----|---------|--------|-------|
| **LOOP ID - SAC** | | | | | | |
| 130 | SAC | Service, Promotion, Allowance or Charge Info | O | 1 | | |
| 170 | TAX | Tax Reference | O | >1 | | |
| 180 | FOB | F.O.B. Related Instructions | O | >1 | | |
| **210** | **DTM** | **Date/Time Reference** | **O** | **10** | | |
| 250 | TD5 | Carrier Details | O | 12 | | |
| 289 | MSG | Message Text | O | >1 | | |
| **LOOP ID – N1** | | | | | | |
| 350 | N1 | Name | O | 1 | | |
| 360 | N2 | Additional Name Information | O | 2 | | |
| 370 | N3 | Address Information | O | 2 | | |
| 380 | N4 | Geographic Location | O | 1 | | |
| 460 | PKG | Marking, Packaging, Loading | O | 200 | | |

# Summary:

| POS | ID | Segment Name | Req | Max Use | Repeat | Notes |
|-----|-----|-------------|-----|---------|--------|-------|
| **010** | **CTT** | **Transaction Totals** | **O** | **1** | | |
| **020** | **SE** | **Transaction Set Trailer** | **M** | **1** | | |

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

**Level:**      Header
**Loop:**       N/A
**Usage:**      Mandatory
**Max Use:**    1
**Purpose:**    To indicate the start of a transaction set and to assign a control number

**Semantic:**   1   The transaction set identifier (ST01) used by the translation routines of the
                    interchange partners to select the appropriate transaction set definition (e. g.
                    850 selects the purchase order Transaction Set).

**Example: ST*850*1234**


### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES |
|---|---|---|---|
| **ST01** | **143** | **Transaction Set Identifier Code**<br>Code uniquely identifying a Transaction Set | **M   ID   3/3** |

| Code | Definition |
|---|---|
| **850** | **Purchase Order** |

| REF DES. | DATA ELE. | NAME | ATTRIBUTES |
|---|---|---|---|
| **ST02** | **329** | **Transaction Set Control Number**<br>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: BEG   **Beginning Segment for Purchase Order**

**Level:**      Header
**Loop:**       N/A
**Usage:**      Mandatory
**Max Use:**    1
**Purpose:**    To indicate the beginning of a Purchase Order
Transaction Set and transmit identifying numbers and dates.

**Example: BEG\*00\*SA\*00345678\*\*20060102**
**         BEG\*04\*SA\*00123456\*\*20060102**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | | ATTRIBUTES | |
|----------|-----------|------|------|------------|------|
| **BEG01** | **353** | Transaction Set Purpose | **M** | **ID** | **2/2** |
| | | 00    Original | | | |
| | | 04    Change | | | |
| | | 06    Confirmation | | | |
| | | 07    Duplicate | | | |
| **BEG02** | **92** | Purchase Order Type Code | **X** | **ID** | **2/2** |
| | | SA     Stand-alone Order | | | |
| **BEG03** | **324** | Purchase Order Number | **X** | **AN** | **1/22** |
| **BEG05** | **373** | Date | **M** | **DT** | **8/8** |
| **BEG06** | **367** | Contract Number | **O** | **AN** | **1/30** |

## Segment:  CUR    Currency

**Level:**        Header
**Loop:**         N/A
**Usage:**        Optional
**Max Use:**      1
**Purpose:**      To specify the currency(dollars, pounds, etc.) used in the transaction.

**Syntax Notes:**
> **1** If CUR08 is present, then CUR07 is required.
> **2** If CUR09 is present, then CUR07 is required.
> **3** If CUR10 is present, then at least one of CUR11 or CUR12 is required.
> **4** If CUR11 is present, then CUR10 is required.
> **5** If CUR12 is present, then CUR10 is required.
> **6** If CUR13 is present, then at least one of CUR14 or CUR15 is required.
> **7** If CUR14 is present, then CUR13 is required.
> **8** If CUR15 is present, then CUR13 is required.
> **9** If CUR16 is present, then at least one of CUR17 or CUR18 is required.
> **10** If CUR17 is present, then CUR16 is required.
> **11** If CUR18 is present, then CUR16 is required.
> **12** If CUR19 is present, then at least one of CUR20 or CUR21 is required.
> **13** If CUR20 is present, then CUR19 is required.
> **14** If CUR21 is present, then CUR19 is required.

**Example: CUR*BY*USD**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES | | |
|----------|-----------|------|------------|---|---|
| **CUR01** | 374 | Entity Identifier Code | M | ID | 3/3 |
| | | BY      Buying Party | | | |
| **CUR02** | 100 | Currency Code | M | ID | 3/3 |

## Segment:  REF    **Reference Identification**

**Level:**        Header
**Loop:**         N1/200
**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.

**Example: REF*CO*DU55555**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES |
|---|---|---|---|
| **REF01** | **128** | Reference Identification Qualifier | **M  ID  2/3** |
| | | CO    Customer Order Number | |
| | | PSM   Credit Card | |
| **REF02** | **127** | Reference Identification | **X  AN  1/30** |

Segment:  TAX    **Tax Reference**

**Level:**       Header
**Loop:**
**Usage:**       Optional
**Max Use:**     >1
**Purpose:**     To provide data required for proper notification/determination of applicable taxes
                 applying to the transaction or business described in the transaction.

**Syntax Notes:**
    **1** At least one of TAX01 or TAX03 is required.
    **2** If either TAX02 or TAX03 is present, then the other is required.
    **3** If either TAX04 or TAX05 is present, then the other is required.
    **4** If either TAX06 or TAX07 is present, then the other is required.
    **5** If either TAX08 or TAX09 is present, then the other is required.
    **6** If either TAX10 or TAX11 is present, then the other is required.

**Example: TAX*1234567*SP*OH*********1**

**Data Element Summary**

| REF DES. | DATA ELE. | NAME | ATTRIBUTES | | |
|---|---|---|---|---|---|
| **TAX01** | **325** | Assigned Identification | **X** | **AN** | **1/20** |
| **TAX02** | **309** | Product/Service Id Qualifier<br>    SP    State or Province | **X** | **ID** | **1/2** |
| **TAX03** | **310** | Product Service Id | **X** | **AN** | **1/30** |
| **TAX12** | **441** | Tax Exempt Code | **O** | **ID** | **1/1** |

## Segment: FOB    **F.O.B. Related Instructions**

**Level:**      Header
**Loop:**
**Usage:**      Optional
**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.

**Example: FOB\*PC\*FV\*Avon Lake, OH**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | | ATTRIBUTES | |
|---|---|---|---|---|---|
| **FOB01** | **146** | Shipment methods of payment | M | ID | 2/2 |
| | | SP    State or Province | | | |
| | | CC    Collect | | | |
| | | CF    Collect, Freight Credited Back to Customer | | | |
| | | DF    Defined by Buyer and Seller | | | |
| | | NC    Service Freight, No Charge | | | |
| | | PC    Prepaid but Charged to Customer | | | |
| | | PP    Prepaid (by Seller) | | | |
| **FOB02** | **309** | Location Qualifier | X | ID | 1/2 |
| | | DE    Destination (Shipping) | | | |
| | | FV    Free Alongside Vessel (Free On Board [F.O.B.] Point) | | | |
| | | OR    Origin (Shipping Point) | | | |
| **FOB03** | **352** | Description | O | AN | 1/80 |
| **FOB04** | **334** | Transportation Terms Qualifier Code | O | ID | 2/2 |
| | | 01    Incoterms | | | |
| **FOB05** | **335** | Transportation Terms Code | X | ID | 3/3 |
| | | CFR Cost and Freight | | | |
| | | CIF    Cost, Insurance, and Freight | | | |
| | | CIP    Carriage and Insurance Paid To | | | |
| | | CPT    Carriage Paid To | | | |
| | | DDP    Delivered Duty Paid | | | |
| | | DDU    Deliver Duty Unpaid | | | |
| | | FCA    Free Carrier | | | |
| | | FOB    Free on Board | | | |

## Segment: ITD    **Terms of Sale/Deferred Terms of Sale**

**Level:**       Header
**Loop:**
**Usage:**       Optional
**Max Use:**     >1
**Purpose:**     To specify terms of sale.

**Syntax Notes:**

    **1** If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.
    **2** If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.
    **3** If ITD09 is present, then at least one of ITD10 or ITD11 is required.

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**Example: ITD*05*03*****60*****Net 60 Days**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES | | |
|---|---|---|---|---|---|
| **ITD01** | **336** | Terms Type Code | O | ID | 2/2 |
| | |    02    End of Month (EOM) | | | |
| | |    05    Discount Not Applicable | | | |
| | |    08    Basic Discount Offered | | | |
| | |    09    Proximo | | | |
| | |    10    Instant | | | |
| | |    ZZ    Mutually Defined | | | |
| **ITD02** | **333** | Terms Basis Date Code | O | ID | 1/2 |
| | |    3    Invoice Date | | | |
| **ITD03** | **338** | Terms Discount Percent | O | R | 1/6 |
| **ITD05** | **351** | Terms Discount Days Due | X | N0 | 1/3 |
| **ITD07** | **386** | Terms Net Days | O | AN | 1/3 |
| **ITD12** | **352** | Description | O | AN | 1/80 |
| **ITD13** | **765** | Day of Month | X | N0 | 1/2 |

## Segment: DTM    **Date/Time Reference**
**Level:**       Header
**Loop:**
**Usage:**       Optional
**Max Use:**     10
**Purpose:**     To specify pertinent date 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.

**Example: DTM\*074\*20060203**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES | | |
|----------|-----------|------|------------|---|---|
| **DTM01** | **374** | Date/Time Qualifier | **M** | **ID** | **3/3** |
|  |  | 036    Expiration |  |  |  |
|  |  | 055    Confirmed |  |  |  |
|  |  | 074    Requested for Delivery (Prior to and Including) |  |  |  |
| **DTM02** | **373** | Date | **X** | **DT** | **8/8** |

## Segment: PWK  **Paperwork**
**Level:**      Header
**Loop:**
**Usage:**      Optional
**Max Use:**    25
**Purpose:**    To identify the type or transmission or both of paperwork or supporting information.

**Example: PWK*BL*WS*****SEND A DUPLICATE PACKING LIST/BOL TO POLYONE**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES |
|---|---|---|---|
| **PWK01** | **755** | Report Type Code | **M  ID  2/2** |

        13     Certified Test Report
        BL     Bill of Lading
        BT     Blanket Test Results
        CA     Certificate of Analysis
        IV     Invoice
        MS     Material Safety Data Sheet
        VD     Data Request for Vendor's Specs or Drawings.

| | | | |
|---|---|---|---|
| **PWK02** | **756** | Report Transmission Code | **O  ID  1/2** |

        BW    Best Way (Sender's Option)
        SM    By Mail Before Shipping
        TM    Separately, by Mail at Time of Shipping
        WS    With Shipment (With Package)

| | | | |
|---|---|---|---|
| **PWK07** | **352** | Description | **O  AN  1/80** |

## Segment: PKG **Marking, Packaging, Loading**

**Level:** Header
**Loop:**
**Usage:** Optional
**Max Use:** 200
**Purpose:** To describe marking, packaging, loading, and unloading requirements.

**Syntax Notes:**

**1** At least one of PKG04 PKG05 or PKG06 is required.
**2** If PKG04 is present, then PKG03 is required.
**3** If PKG05 is present, then PKG01 is required.

**Example: PKG*X*37***SHIP IN DAMAGE FREE CAR. PALLETIZE MATERIAL**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | | ATTRIBUTES |
|---|---|---|---|---|
| **PKG01** | **349** | Item Description Type | **X** | **ID 1/1** |
| | | X    Semi-structured (Code and Text) | | |
| **PKG02** | **753** | Packaging Characteristic Code | **O** | **ID 1/5** |
| | | 10    Shipping Package Labeling | | |
| | | 34    Product Marking | | |
| | | 35    Type of Package | | |
| | | 36    Package Specifications | | |
| | | 37    Package Protection | | |
| | | 42    Placement on Carrier | | |
| | | 43    Spacing Directions | | |
| | | 44    Unloading Device | | |
| | | 45    Unloading Equipment | | |
| | | 68    Skid/Pallet Type | | |
| **PKG05** | **352** | Description | **X** | **AN 1/80** |

Segment: TD5    **Carrier Details(Routing Sequence/Transit Time)**
**Level:**      Header
**Loop:**
**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.
**4** If TD510 is present, then TD511 is required.
**5** If TD513 is present, then TD512 is required.
**6** If TD514 is present, then TD513 is required.
**7** If TD515 is present, then TD512 is required.

**Example: TD5*****BEST WAY**

**Data Element Summary**

| REF DES. | DATA ELE. | NAME | | ATTRIBUTES |
|----------|-----------|------|---|------------|
| **TD505** | **387** | Routing | **X** | **AN 1/35** |

## Segment: N9    **Reference Identification**

**Level:**     Header
**Loop:**      N9
**Usage:**     Optional
**Max Use:**   1
**Purpose:**   To transmit identifying information as specified by the Reference Identification
               Qualifier.

**Syntax Notes:**
      **1** At least one of N902 or N903 is required.
      **2** If N906 is present, then N905 is required.
      **3** If either C04003 or C04004 is present, then the other is required.
      **4** If either C04005 or C04006 is present, then the other is required.

**Example: N9*ZZ**SEE BELOW**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES |
|---|---|---|---|
| **N901** | **128** | Reference Identification Qualifier<br>   ZZ    Mutually Defined | **M ID 2/3** |
| **N903** | **369** | Free-form Description | **X AN 1/45** |

## Segment: MSG   **Message Text**

**Level:**       Header
**Loop:**        N9
**Usage:**       Optional
**Max Use:**     1000
**Purpose:**     To provide a free-form format that allows the transmission of text information.

**Syntax Notes:**

     **1** If MSG03 is present, then MSG02 is required.

**Example: MSG*ALL INVOICES SHOULD INCLUDE PO NUMBER**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES |
|----------|-----------|------|------------|
| **MSG01** | **933** | Free-form message text | **M   AN  1/264** |

### Segment:  N1    **Name**

**Level:**      Header
**Loop:**       N1
**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.

**Example: N1\*BT\*POLYONE CORPORATION**
**          N1\*ST\*POLYONE CORPORATION**

### Data Element Summary

| REF<br>DES. | DATA<br>ELE. | NAME | ATTRIBUTES |
|---|---|---|---|
| **N101** | **98** | Entity Identifier Code | M  ID  2/3 |
| | | BT     Bill-to-Party | |
| | | BY     Buying Party (Purchaser) | |
| | | BF     Buying From | |
| | | CS     Consolidator | |
| | | ST     Ship To | |
| | | SU     Supplier/Manufacturer | |
| **N102** | **93** | Name | X  AN  1/60 |
| **N103** | **66** | Identification Code Qualifier | X  ID  1/2 |
| | | 12     Telephone Number (Phone) | |
| | | 92     Assigned by Buyer or Buyer's Agent | |
| | |         A copy of the customer's destination codes | |
| | |         will be supplied upon request. | |
| **N104** | **67** | Identification Code | X  AN  2/80 |

## Segment: N2    **Additional Name Information**

**Level:**       Header
**Loop:**        N1
**Usage:**       Optional
**Max Use:**     2
**Purpose:**     To specify additional names or those longer than 35 characters in length.

**Example: N2*BLDG 2**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES |
|----------|-----------|------|------------|
| **N201** | **93** | Name | **M   AN  1/60** |
| **N202** | **93** | Name | **O   AN  1/60** |

## Segment: N3   **Address Information**

**Level:**       Header
**Loop:**        N1
**Usage:**       Optional
**Max Use:**     2
**Purpose:**     To specify the location of the named party.

**Example: N3\*PO BOX 33121**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES |
|---|---|---|---|
| **N301** | **166** | Address Information | **M   AN  1/55** |
| **N302** | **166** | Address Information | **O   AN  1/55** |

Segment: N4    **Geographic Location**

**Level:**      Header
**Loop:**       N1
**Usage:**      Optional
**Max Use:**    >1
**Purpose:**    To specify the geographic place of the named party.

**Syntax Notes:**

      **1** If N406 is present, then N405 is required.

**Example: N4\*AVON LAKE\*OH\*44012**

## Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES | | |
|----------|-----------|------|------------|---|---|
| **N401** | **19** | City Name | **O** | **AN** | **2/30** |
| **N402** | **156** | State or Province | **O** | **ID** | **2/2** |
| **N403** | **116** | Postal Code | **O** | **ID** | **3/15** |
| **N404** | **26** | Country Code | **O** | **ID** | **2/3** |

## Segment: PER   **Administrative Communications Contact**

**Level:**        Header
**Loop:**         N1
**Usage:**        Optional
**Max Use:**      >1
**Purpose:**      To identify a person or office to whom administrative communications should be Directed.

**Syntax Notes:**
    **1** If either PER03 or PER04 is present, then the other is required.
    **2** If either PER05 or PER06 is present, then the other is required.
    **3** If either PER07 or PER08 is present, then the other is required.

**Example: PER*IC*JANE DOE*TE*123-123-1234**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES |
|---|---|---|---|
| **PER01** | **366** | Contact Function Code<br>CW    Confirmed With<br>IC    Information Contact<br>SC    Schedule Contact | **M  ID  2/2** |
| **PER02** | **93** | Name | **O  AN  1/60** |
| **PER03** | **365** | Communication Number Qualifier<br>FX    Facsimile<br>TE    Telephone | **X  ID  1/60** |
| **PER04** | **364** | Communication Number | **X  AN  1/80** |

Segment: PO1    **Baseline Item Data**

**Level:**      Detail
**Loop:**       PO1
**Usage:**      Mandatory
**Max Use:**    1
**Purpose:**    To specify basic and most frequently used line item data.

**Syntax Notes:**
    **1** If PO103 is present, then PO102 is required.
    **2** If PO105 is present, then PO104 is required.
    **3** If either PO106 or PO107 is present, then the other is required.
    **4** If either PO108 or PO109 is present, then the other is required.
    **5** If either PO110 or PO111 is present, then the other is required.
    **6** If either PO112 or PO113 is present, then the other is required.
    **7** If either PO114 or PO115 is present, then the other is required.
    **8** If either PO116 or PO117 is present, then the other is required.
    **9** If either PO118 or PO119 is present, then the other is required.
    **10** If either PO120 or PO121 is present, then the other is required.
    **11** If either PO122 or PO123 is present, then the other is required.
    **12** If either PO124 or PO125 is present, then the other is required.

**Example: PO1*1*4*EA*42.95**BP*11-111-1111*EC*A*CR*87664321**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES | | |
|---|---|---|---|---|---|
| **PO101** | **350** | Assigned Identification | O | AN | 1/20 |
| **PO102** | **330** | Quantity Ordered | X | R | 1/15 |
| **PO103** | **355** | Unit or Basis Measurement Code | O | ID | 2/2 |
| **PO104** | **364** | Unit Price | X | R | 1/17 |
| **PO105** | **639** | Basis or Unit Price Code | O | ID | 2/2 |
| | |    HP     Price per Hundred | | | |
| | |    PD     Price per Dozen | | | |
| | |    TP     Price per Thousand | | | |
| **PO106** | **235** | Product/Service ID Qualifier | X | ID | 2/2 |
| | |    BP     Buyer's Part Number | | | |
| | |    CR     Contract Number | | | |
| | |    EC     Engineering Change Level | | | |
| | |    IN     Buyer's Item Number | | | |

Segment:  PO1    **Baseline Item Data – Cont.**

## Data Element Summary

| REF DES. | DATA ELE. | NAME | | ATTRIBUTES |
|----------|-----------|------|---|------------|

|   |   | MF    Manufacturer |   |   |
|   |   | MG    Manufacturer's Part Number |   |   |
|   |   | VC    Vendor's (Seller's) Catalog Number |   |   |
|   |   | VN    Vendor's (Seller's) Item Number |   |   |
|   |   | VP    Vendor's (Seller's) Part Number |   |   |

| **PO107** | **234** | Product/Service ID | **X** | **AN 1/48** |
| **PO108** | **235** | Product/Service ID Qualifier | **X** | **ID  2/2** |
| **PO109** | **234** | Product/Service ID | **X** | **AN 1/48** |
| **PO110** | **235** | Product/Service ID Qualifier | **X** | **ID  2/2** |
| **PO111** | **234** | Product/Service ID | **X** | **AN 1/48** |
| **PO112** | **235** | Product/Service ID Qualifier | **X** | **ID  2/2** |
| **PO113** | **234** | Product/Service ID | **X** | **AN 1/48** |
| **PO114** | **235** | Product/Service ID Qualifier | **X** | **ID  2/2** |
| **PO115** | **234** | Product/Service ID | **X** | **AN 1/48** |
| **PO116** | **235** | Product/Service ID Qualifier | **X** | **ID  2/2** |
| **PO117** | **234** | Product/Service ID | **X** | **AN 1/48** |

## Segment: PO3   **Additional Item Data**

**Level:**      Detail
**Loop:**       PO1
**Usage:**      Optional
**Max Use:**    25
**Purpose:**    To specify additional item-related data involving variations in normal price/quantity
                Structure.

**Syntax Notes:**

**1** If PO304 is present, then at least one of PO303 or PO305 is required.

**Example: PO3\*AQ\*\*\*\*\*50\*EA**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | | ATTRIBUTES | |
|---|---|---|---|---|---|
| **PO301** | **371** | Change Reason Code | **M** | **ID** | **2/2** |
| | | AQ   Code specifying the reason for price or quantity change | | | |
| **PO306** | **380** | Quantity | **M** | **R** | **1/15** |
| **PO307** | **355** | Unit or Basis Measurement Code | **M** | **ID** | **2/2** |

## Segment: PID    **Production/Item Description**

**Level:**      Detail
**Loop:**       PID
**Usage:**      Optional
**Max Use:**    1
**Purpose:**    To describe a product or process in coded or free-form format.

**Syntax Notes:**

    **1** If PID04 is present, then PID03 is required.
    **2** At least one of PID04 or PID05 is required.
    **3** If PID07 is present, then PID03 is required.
    **4** If PID08 is present, then PID04 is required.
    **5** If PID09 is present, then PID05 is required.

**Example: PID*F****FILTER 12345**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES |
|---|---|---|---|
| **PID01** | **349** | Item Description Type<br>   F     Free-form | **M   ID   1/1** |
| **PID05** | **352** | Description | **X   AN   1/80** |

Segment: MEA    **Measurements**
**Level:**      Detail
**Loop:**       PID
**Usage:**      Optional
**Max Use:**    10
**Purpose:**    To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001).

**Syntax Notes:**

    **1** At least one of MEA03 MEA05 MEA06 or MEA08 is required.

    **2** If MEA05 is present, then MEA04 is required.

    **3** If MEA06 is present, then MEA04 is required.

    **4** If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.

    **5** Only one of MEA08 or MEA03 may be present.

**Example: MEA*SH*PO**EA*10*10**

**Data Element Summary**

| REF DES. | DATA ELE. | NAME | ATTRIBUTES | | |
|---|---|---|---|---|---|
| **MEA01** | **737** | Measurement ID Reference Code | **O** | **ID** | **2/2** |
| | | SH    Shipping Tolerance | | | |
| **MEA02** | **738** | Measurement Qualifier | **O** | **ID** | **1/3** |
| | | PO    Percent of Order | | | |
| **MEA04** | **C001** | Composite Unit Of Measure | **X** | | |
| **C00101** | **355** | Unit or Basis for Measurement Code | **M** | **ID** | **2/2** |
| **MEA05** | **740** | Range Minimum | **X** | **R** | **1/20** |
| **MEA06** | **741** | Range Maximum | **X** | **R** | **1/20** |

# Segment: PWK  **Paperwork**
**Level:**      Detail
**Loop:**       PO1
**Usage:**      Optional
**Max Use:**    25
**Purpose:**    To identify the type or transmission or both of paperwork or supporting information.

**Syntax Notes:**

**1** If either PWK05 or PWK06 is present, then the other is required.

**Example: PWK*CA*BW*****SEND CERTIFICATE OF ANALYSIS**

## Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES | | |
|---|---|---|---|---|---|
| **PWK01** | **755** | Report Type Code | **M** | **ID** | **2/2** |
| | | 13      Certified Test Report | | | |
| | | BL      Bill of Lading | | | |
| | | BT      Blanket Test Results | | | |
| | | CA      Certificate of Analysis | | | |
| | | IV      Invoice | | | |
| | | MS      Material Safety Data Sheet | | | |
| | | VD      Data Request for Vendor's Specifications or Drawings. | | | |
| **PWK02** | **756** | Report Transmission Code | **O** | **ID** | **1/2** |
| | | BW      Best Way (Sender's Option) | | | |
| | | SM      By Mail Before Shipping | | | |
| | | TM      Separately, by Mail at Time of Shipping | | | |
| | | WS      With Shipment (With Package) | | | |
| **PWK07** | **352** | Description | **O** | **AN** | **1/80** |

Segment: REF   **Reference Identification**
**Level:**      Detail
**Loop:**       PO1
**Usage:**      Optional
**Max Use:**    >1
**Purpose:**    To specify identifying information.

**Semantic Notes:**
> **1** REF04 contains data relating to the value cited in REF02.

**Example: REF\*IX\*00000003**


**Data Element Summary**

| REF<br>DES. | DATA<br>ELE. | NAME | ATTRIBUTES | | |
|---|---|---|---|---|---|
| **REF01** | **128** | Reference Identification Qualifier | **M** | **ID** | **2/3** |
| | | IX      Item Number | | | |
| **REF02** | **127** | Reference Identification | **X** | **AN** | **1/30** |

Segment: SAC   **Service, Promotion, Allowance, or Charge Information**
**Level:**      Detail
**Loop:**       SAC
**Usage:**      Optional
**Max Use:**    1
**Purpose:**    To request or identify a service, promotion, allowance, or charge; to specify the
                amount or percentage for the service, promotion, allowance, or charge.


**Syntax Notes:**
    **1** At least one of SAC02 or SAC03 is required.
    **2** If either SAC03 or SAC04 is present, then the other is required.
    **3** If either SAC06 or SAC07 is present, then the other is required.
    **4** If either SAC09 or SAC10 is present, then the other is required.
    **5** If SAC11 is present, then SAC10 is required.
    **6** If SAC13 is present, then at least one of SAC02 or SAC04 is required.
    **7** If SAC14 is present, then SAC13 is required.
    **8** If SAC16 is present, then SAC15 is required.


**Example: SAC*A*A380****5*.1*2**


**Data Element Summary**

| REF DES. | DATA ELE. | NAME | ATTRIBUTES | | |
|----------|-----------|------|-----------|---|---|
| **SAC01** | **248** | Allowance or Charge Indicator<br>   A      Allowance | M | ID | 1/1 |
| **SAC02** | **1300** | Service, Promotion, Allowance, or Charge Code | X | ID | 4/4 |
| **SAC06** | **378** | Allowance/Charge Percent Qualifier<br>   5      Base Price per Unit | X | ID | 1/1 |
| **SAC07** | **332** | Percent | X | R | 1/6 |
| **SAC08** | **118** | Rate | O | R | 1/9 |
| **SAC12** | **331** | Allowance or Charge Method of Handling Code<br>   02     Off Invoice | O | ID | 2/2 |

## Segment: TAX  **Tax Reference**

**Level:**      Detail
**Loop:**       PO1
**Usage:**      Optional
**Max Use:**    >1
**Purpose:**    To provide data required for proper notification/determination of applicable taxes
                applying to the transaction or business described in the transaction.


**Syntax Notes:**

**1** At least one of TAX01 or TAX03 is required.
**2** If either TAX02 or TAX03 is present, then the other is required.
**3** If either TAX04 or TAX05 is present, then the other is required.
**4** If either TAX06 or TAX07 is present, then the other is required.
**5** If either TAX08 or TAX09 is present, then the other is required.
**6** If either TAX10 or TAX11 is present, then the other is required.

**Example: TAX*12345*SP*OH*********1**


### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES |
|---|---|---|---|
| **TAX01** | **325** | Allowance or Charge Indicator | **X AN 1/20** |
| **TAX02** | **309** | Location Qualifier<br>SP    State or Province | **X ID 1/2** |
| **TAX03** | **310** | Location Identifier | **X AN 1/30** |
| **TAX12** | **441** | Tax Exempt Code<br>1    Yes (Tax Exempt)<br>2    No (Not Tax Exempt)<br>7    Direct Pay ID | **O ID 1/1** |

## Segment: FOB   **F.O.B. Related Instructions**

**Level:**      Detail
**Loop:**       PO1
**Usage:**      Optional
**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.

**Example: FOB\*PC\*FV\*AVON LAKE, OH**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES |
|---|---|---|---|
| **FOB01** | **146** | Shipment Method of Payment | **M  ID  2/2** |
| | | CC    Collect | |
| | | CF    Collect, Freight Credited Back to Customer | |
| | | DF    Defined by Buyer and Seller | |
| | | NC    Service Freight, No Charge | |
| | | PC    Prepaid but Charged to Customer | |
| | | PP    Prepaid (by Seller) | |
| **FOB02** | **309** | Location Qualifier | **X  ID  1/2** |
| | | DE    Destination (Shipping) | |
| | | FV    Free Alongside Vessel (Free On Board [F.O.B.] Point) | |
| | | OR    Origin (Shipping Point) | |
| **FOB03** | **352** | Description | **O  AN  1/80** |
| **FOB04** | **334** | Transportation Terms Qualifier Code | **O  ID  2/2** |
| | | 02    Incoterms | |
| **FOB05** | **335** | Transportation Terms Code | **X  ID  3/3** |

## Segment: DTM   **Date/Time Reference**
**Level:**      Detail
**Loop:**       PO1
**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.

**Example: DTM\*074\*20060423**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES |
|---|---|---|---|
| **DTM01** | **374** | Date/Time Qualifier | **M ID 3/3** |
| | | 036     Expiration | |
| | | 055     Confirmed | |
| | | 074     Requested for Delivery (Prior to and Including) | |
| **DTM02** | **373** | Date | **X DT 8/8** |

Segment: TD5    **Carrier Details(Routing Sequence/Transit Time)**
**Level:**      Detail
**Loop:**       PO1
**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.

**4** If TD510 is present, then TD511 is required.

**5** If TD513 is present, then TD512 is required.

**6** If TD514 is present, then TD513 is required.

**7** If TD515 is present, then TD512 is required.

**Example: TD5*****BEST WAY**

**Data Element Summary**

| REF<br>DES. | DATA<br>ELE. | NAME | ATTRIBUTES |
|---|---|---|---|
| **TD505** | **387** | Routing | **X    AN  1/35** |

## Segment: MSG    **Message Text**

**Level:**      Detail
**Loop:**       PO1
**Usage:**      Optional
**Max Use:**    >1
**Purpose:**    To provide a free-form format that allows the transmission of text information.

**Syntax Notes:**
>    **1** If MSG03 is present, then MSG02 is required.

**Example: MSG*PLEASE LABEL EACH PART**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES |
|----------|-----------|------|------------|
| **MSG01** | **933** | Free-form message text | **X    AN  1/264** |

Segment:   N1        **Name**
**Level:**      Detail
**Loop:**       N1
**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.

**Example: N1*ST*POLY ONE CORPORATION*92*01D1J10**

**Data Element Summary**

| REF<br>DES. | DATA<br>ELE. | NAME | ATTRIBUTES | | |
|---|---|---|---|---|---|
| **N101** | **98** | Entity Identifier Code<br>   ST    Ship To | **M** | **ID** | **2/3** |
| **N102** | **93** | Name | **X** | **AN** | **1/60** |
| **N103** | **66** | Identification Code Qualifier<br>   92    Assigned by buyer or buyer's agent | **X** | **ID** | **1/2** |
| **N104** | **67** | Identification Code | **X** | **AN** | **2/80** |

## Segment: N2   **Additional Name Information**
**Level:**     Detail
**Loop:**      N1
**Usage:**     Optional
**Max Use:**   2
**Purpose:**   To specify additional names or those longer than 35 characters in length.

**Example: N2*BLDG 2**

**Data Element Summary**

| REF DES. | DATA ELE. | NAME | ATTRIBUTES | | |
|----------|-----------|------|------------|---|---|
| **N201** | **93** | Free-form name | **M** | **AN** | **1/60** |
| **N202** | **93** | Free-form name | **O** | **AN** | **1/60** |

## Segment: N3    **Address Information**
**Level:**      Detail
**Loop:**       N1
**Usage:**      Optional
**Max Use:**    2
**Purpose:**    To specify location of the named party.

**Example: N3\*6200 Jackson RD**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES | | |
|---|---|---|---|---|---|
| **N301** | **166** | Address Information | **M** | **AN** | **1/55** |
| **N302** | **166** | Address Information | **O** | **AN** | **1/55** |

Segment:    N4        **Geographic Location**
**Level:**        Detail
**Loop:**         N1
**Usage:**        Optional
**Max Use:**      2
**Purpose:**      To specify the geographic place of the named party.

**Syntax Notes:**

     **1** If N406 is present, then N405 is required.

**Example: N4*AVON LAKE*OH*12345**

**Data Element Summary**

| REF DES. | DATA ELE. | NAME | ATTRIBUTES | | |
|---|---|---|---|---|---|
| **N401** | **19** | City Name | **O** | **AN** | **2/30** |
| **N402** | **156** | State or Province Code | **O** | **ID** | **2/2** |
| **N403** | **116** | Postal Code | **O** | **ID** | **3/15** |
| **N404** | **26** | Country Code<br>Used only if outside US | **O** | **ID** | **2/3** |

## Segment: PKG   **Marking, Packaging, Loading**
**Level:**      Detail
**Loop:**       N1
**Usage:**      Optional
**Max Use:**    200
**Purpose:**    To describe marking, packaging, loading, and unloading requirements.

**Syntax Notes:**

> **1** At least one of PKG04 PKG05 or PKG06 is required.
> **2** If PKG04 is present, then PKG03 is required.
> **3** If PKG05 is present, then PKG01 is required.

**Example: PKG*X*37***PLEASE LABEL PACKAGE**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | | ATTRIBUTES | |
|---|---|---|---|---|---|
| **PKG01** | **19** | Item Description Type | **X** | **ID** | **1/1** |
| | | X    Semi-structured (Code and Text) | | | |
| **PKG02** | **156** | Packaging Characteristic Code | **O** | **ID** | **1/5** |
| | | 10    Shipping Package Labeling | | | |
| | | 34    Product Marking | | | |
| | | 35    Type of Package | | | |
| | | 36    Package Specifications | | | |
| | | 37    Package Protection | | | |
| | | 42    Placement on Carrier | | | |
| | | 43    Spacing Directions | | | |
| | | 44    Unloading Device | | | |
| | | 45    Unloading Equipment | | | |
| | | 68    Skid/Pallet Type | | | |
| **PKG05** | **116** | Description | **X** | **AN** | **1/80** |

## Segment: CTT **Transaction Totals**

**Level:** Summary
**Loop:** N/A
**Usage:** Optional
**Max Use:** 1
**Purpose:** Transmit a hash total for specific elements in the transaction set.

**Example: CTT\*14\*60804**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES | | |
|----------|-----------|------|------------|---|---|
| **CTT01** | **354** | Number of Line Items | **M** | **NO** | **1/6** |
| **CTT02** | **347** | Hash Totals | **M** | **R** | **1/10** |

## Segment: SE    **Transaction Set Trailer**

**Level:**     Summary
**Loop:**      N/A
**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 the ending (SE) segments.

**Comments: A**   SE is the last segment of each transaction set.

**Example: SE*17*1234**

### Data Element Summary

| REF DES. | DATA ELE. | NAME | ATTRIBUTES |
|---|---|---|---|
| **SE01** | **96** | **Number of included segments** | **M   NO 1/10** |
| | | Total number of segments included in a transaction set including ST and SE segments. | |
| **SE02** | **329** | **Transaction Set Control Number** | **M   AN 4/9** |
| | | Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. | |