

Kruger
Electronic
Exchange
Partnership

***EDI Implementation
Guide***

850 - Purchase Order

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EDI Standard

ANSI X.12, version 4010

850 - Purchase Order

Transmission Modes

Transmission types accepted: AS2, AS1, SMTP, FTP

EDI identification and qualifier: 12 / 4509639558

[Test and production]

Transmission Reception Times

Send: 24h/24h

Reception: 24h/24h

File Format

Segment and Element Separators

| Separator | Graphic | Symbol | Decimal | Hex |
|-------------|---------|--------------|---------|-----|
| Sub element | > | Greater than | 62 | 3E |
| Element | * | Asterisk | 42 | 2A |
| Segment | ~ | Tilde | 126 | 7E |

Numerical Values

| Description | Length | Type |
|-----------------------|--------|--------|
| Kruger product number | 5 | Number |
| Supplier number | 6 | Alpha |

Data Types

| Class | Explication | Details |
|-------|-------------|---|
| M | Mandatory | Must be present in the segment |
| O | Optional | May be present or not |
| C | Conditional | Conditional to the other element present in the segment |
| X | Relational | One or more elements must be present |

Element Types

| Types | Description |
|-------|-------------------------------|
| ID | Identifier |
| AN | Alpha |
| DT | Date format CCAAMMJJ |
| TM | Hour HH : MM on 24 hours |
| Nx | Number, decimals are implicit |
| R | Decimals are explicit |

EDI Envelope

ISA – Partner’s Identification (Mandatory)

| Elem. | Ref | ANSI X.12 description | Format | | Size |
|-------|-----|--------------------------|--------|----|-------|
| ISA01 | I01 | Auth. Inf. Qualifier | M | ID | 02/02 |
| ISA02 | I02 | Auth. Information | M | AN | 10/10 |
| ISA03 | I03 | Sec. Inf. Qualifier | M | ID | 02/02 |
| ISA04 | I04 | Security Information | M | AN | 10/10 |
| ISA05 | I05 | Interchange ID Qualifier | M | ID | 02/02 |
| ISA06 | I06 | Interchange Sender ID | M | AN | 15/15 |
| ISA07 | I07 | Interchange ID Qualifier | M | ID | 02/02 |
| ISA08 | I08 | Interchange Receiver ID | M | AN | 15/15 |
| ISA09 | I09 | Interchange Date | M | DT | 06/06 |
| ISA10 | I09 | Interchange Time | M | TM | 04/04 |
| ISA11 | I10 | Interchange Control ID | M | ID | 01/01 |
| ISA12 | I11 | Interchange Version # | M | ID | 05/05 |
| ISA13 | I12 | Interchange Control # | M | NO | 09/09 |
| ISA14 | I13 | Acknowledgment Requested | M | ID | 01/01 |
| ISA15 | I14 | Test Indicator | M | ID | 01/01 |
| ISA16 | I15 | Sub-element Separator | M | AN | 01/01 |

GS – EDI Sub Envelope (Mandatory)

| Elem. | Ref | ANSI X.12 description | Format | | Size |
|-------|-----|-------------------------|--------|----|-------|
| GS01 | 479 | Functional ID Code | M | ID | 02/02 |
| GS02 | 142 | Application Sender Code | M | AN | 02/15 |
| GS03 | 124 | Application Rec.’s Code | M | AN | 02/15 |
| GS04 | 373 | Date | M | DT | 08/08 |
| GS05 | 337 | Time | M | TM | 04/08 |
| GS06 | 28 | Group Ctrl Number | M | NO | 01/09 |
| GS07 | 455 | Responsible Agency Code | M | ID | 01/02 |
| GS08 | 480 | Version/Release ID Code | M | AN | 01/12 |

GE – EDI Sub Envelope End (Mandatory)

| Elem. | Ref | ANSI X.12 description | Format | | Size |
|-------|-----|-----------------------|--------|----|-------|
| GEO1 | 97 | Number of ST Included | M | NO | 01/06 |
| GEO2 | 28 | Group Ctrl Number | M | NO | 01/09 |

IEA – EDI Envelope End (Mandatory)

| Elem. | Ref | ANSI X.12 description | Format | | Size |
|-------|-----|-----------------------|--------|----|-------|
| IEA01 | I16 | Number of GS | M | NO | 01/05 |
| IEA02 | I12 | Interchange Control # | M | NO | 09/09 |

Header

ST – Transaction Header (Mandatory)

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

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|------------------------|--------|----|-------|----------------------------------|
| ST01 | 143 | Transaction identifier | M | ID | 03/03 | Transaction set identifier code |
| ST02 | 329 | Control number | M | AN | 04/09 | A unique number within the group |

Identifier Code

| Code | Description |
|------|----------------|
| 850 | Purchase Order |

Example

ST*850*0001

BEG – Beginning Segment for Purchase Order (Mandatory)

To indicate the beginning of the purchase order transaction and transmit identifying numbers and dates

| Elem. | Ref | ANSI X.12 description | Format | | size | Comments |
|-------|-----|-----------------------|--------|----|-------|----------------|
| BEG01 | 353 | Purpose code | M | ID | 02/02 | |
| BEG02 | 92 | Purchase order type | M | ID | 02/02 | See Appendix 1 |
| BEG03 | 324 | Purchase order number | M | AN | 01/22 | |
| BEG05 | 373 | Purchase order number | M | DT | 08/08 | |
| BEG06 | 328 | Contract number | O | AN | 01/30 | |

Purpose Codes

| Code | Description |
|------|-------------|
| 00 | Original |

Purchase Order Types

| Code | Description |
|------|-------------------------|
| SA | Stand alone order |
| KB | Blanket order |
| SS | Supply or service order |

Example

BEG*00*SA*PoNumber*20050601

CUR – Currency (Conditional)

To specify the currency

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|----------------------------|--------|----|-------|---|
| CUR01 | 98 | Identifier code | M | ID | 02/03 | Identifies the party responsible for the currency |
| CUR02 | 352 | Standard ISO currency code | M | AN | 03/03 | ISO currency code identifier |

http://userpage.chemie.fu-berlin.de/diverse/doc/ISO_3166.html

Identifier Codes

| Code | Description |
|------|-------------|
| SE | Supplier |
| BY | Buyer |

Currency Codes

| Code | Description |
|------|------------------|
| CAD | Canadian dollars |
| USD | American dollars |

Example

CUR*SE*CAD

REF – Reference Identification (Conditional)

Loop: maximum 20 iterations

References to all parties involved in the transaction such as: department number, tax numbers, supplier number, etc

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|-----------------------|--------|----|-------|--------------------------|
| REF01 | 128 | Qualifier | M | ID | 02/02 | Qualifier see Appendix 2 |
| REF02 | 127 | Reference | X | AN | 01/30 | Reference number |
| REF03 | 352 | Description | X | AN | 01/80 | Textual description |

Reference Qualifiers

| Code | Description |
|------|-------------------|
| IA | Supplier number |
| DP | Department number |
| Q1 | Quote number |

Example

REF*IA*CH1234*your supplier number at Kruger

REF*12*37000

REF*Q1*113050531*your quote number

PER – Contact Information (Conditional)

Loop: maximum 3 iterations

To identify people who can be reached regarding the transaction.

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|-----------------------|--------|----|-------|------------------|
| PER01 | 366 | Contact function code | M | ID | 02/02 | Qualifier |
| PER02 | 93 | Name | O | AN | 01/30 | Contact name |
| PER03 | 365 | Communication type | C | ID | 02/02 | Qualifier |
| PER04 | 364 | Contact number | C | AN | 01/80 | Telephone number |
| PER05 | 365 | Communication type | C | ID | 02/02 | Qualifier |
| PER06 | 364 | Contact number | C | AN | 01/80 | Fax number |
| PER07 | 365 | Type de communication | C | ID | 02/02 | Qualifier |
| PER08 | 364 | Contact number | C | AN | 01/80 | Email |

Contact Qualifiers

| Code | Description |
|------|------------------|
| BD | Buyer |
| AP | Accounts payable |
| AM | Administrator |

Communication Type

| Code | Description |
|------|-------------|
| TE | Telephone |
| FX | Fax |
| EM | Email |

Example

PER*BD*Jean Pierre Camire*TE*1-234-456-7890 ext 222*FX*1-234-456-7890*EM*jpc@kruger.com

FOB – Related Instructions (Optional)

To specify transportation instructions

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|-----------------------|--------|----|-------|---|
| FOB01 | 146 | Payment method | M | ID | 02/02 | Who will pay the transport charges |
| FOB02 | 309 | Location qualifier | X | ID | 01/02 | From which location the freight charges apply |
| FOB03 | 352 | Instructions | O | AN | 01/80 | Text message |

Payment Method List

| Code | Description | Code | Description |
|------|-------------------------|------|---------------------|
| CC | Collect, paid by Kruger | NC | No charge |
| PP | Prepaid | PC | Prepaid but charged |

Location Qualifiers

| Code | Description |
|------|-----------------|
| DE | FOB destination |
| OR | FOB origin |

Example

FOB*CC*OR*Purolator Ground

SAC – Allowances or Charges (Optional)

Loop: maximum 25 iterations

To identify a charge on an allowance

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|------|--------------------------------|--------|----|-------|------------------|
| SAC01 | 248 | Allowance or charge indicator | M | ID | 01/01 | |
| SAC02 | 1300 | Allowance or charge identifier | X | ID | 04/04 | (See Appendix 3) |
| SAC05 | 610 | Allowance or charge amount | O | N2 | 01/15 | Monetary value |
| SAC15 | 352 | Description | X | AN | 01/80 | Text message |

List of Allowances or Charges

| Code | Description |
|------|-------------|
| C | Charge |
| A | Allowance |

Allowance or Charges Identifier List

| Code | Description | Code | Description |
|------|-----------------------|------|---------------------|
| A260 | Advertising Allowance | F910 | Quantity Discount |
| C310 | Discount | F970 | Rebate |
| D170 | Free Goods | I170 | Trade Discount |
| D500 | Handling | I570 | Warehouse Allowance |
| E740 | New Store Discount | ZZZZ | Mutually Defined |
| F800 | Promotional Allowance | | |

Example

SAC*A**** F910*Volume rebate

ITD – Terms of Sale (Mandatory)

Loop: maximum 2 iterations

To specify the terms and conditions

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|---------------------------|--------|----|-------|---------------------|
| ITD01 | 336 | Terms type code | 0 | ID | 02/02 | |
| ITD03 | 338 | Terms discount percentage | 0 | R | 01/06 | |
| ITD04 | 370 | Discount due date | X | DT | 08/08 | |
| ITD06 | 446 | Terms due date | 0 | DT | 08/08 | |
| ITD07 | 386 | Terms net days | 0 | NO | 01/03 | |
| ITD08 | 362 | Terms discount amount | 0 | N2 | 01/10 | |
| ITD12 | 352 | Description | 0 | AN | 01/80 | Textual description |

Terms Type Code List

| Code | Description |
|------|------------------------|
| 01 | Basic |
| 05 | No discount |
| 14 | Previously agreed upon |

Example

ITD*14*****45*****As per phone conversation

DTM – Date (Mandatory)

Loop: maximum 10 iterations

To specify pertinent dates

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|-----------------------|--------|----|-------|----------|
| DTM01 | 374 | Date qualifier | M | ID | 03/03 | |
| DTM02 | 373 | Date | X | DT | 08/08 | |

Date Qualifiers

| Code | Description |
|------|-------------------|
| 001 | Cancellation date |
| 017 | Delivery date |

Example

DTM*017*20050616

N9 – Message Identification (Optional)

A mandatory segment prior to the message segment

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|-----------------------|--------|----|-------|------------------------|
| N901 | 128 | Qualifier | M | ID | 02/03 | « ZZ » by default |
| N903 | 369 | Description | M | AN | 01/45 | « Message » by default |

Example

N9*ZZ**Message

MSG – Text Message (Optional)

Loop: maximum 3 iterations

Free form message

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|-----------------------|--------|----|--------|--------------|
| MSG01 | 363 | Message | M | AN | 01/264 | Instructions |

Example

MSG*The Kruger part number must appear on the packing slip

N1 – Name (Mandatory)

Loop: maximum 4 iterations

Identifies the parties involved in the transaction and their physical locations, with the help of segment N3 Address and N4 Geographical location

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|-----------------------|--------|----|-------|----------|
| N101 | 98 | Identifier code | M | ID | 02/02 | |
| N102 | 93 | Name | X | AN | 01/60 | |
| N103 | 66 | Qualifier | X | ID | 01/02 | |
| N104 | 67 | Identification code | X | AN | 02/80 | |

Identifier Code List

| Code | Description |
|------|----------------|
| BT | Bill to |
| ST | Ship to |
| RE | Remit to |
| MA | Final delivery |

Qualifier List

| Code | Description |
|------|------------------|
| 01 | D.U.N.S number |
| 12 | Telephone number |
| ZZ | Mutually defined |

Example

N1*BT*Kruger inc*12*1234567890

N3 – Address (Mandatory)

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|-----------------------|--------|----|-------|----------|
| N301 | 166 | Address line 1 | M | AN | 01/55 | |
| N302 | 166 | Address line 2 | O | AN | 01/55 | |

Example

N3*220 Chemin Winsord

N3*PO Box 100

N4 – Geographic Location (Mandatory)

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|-----------------------|--------|----|-------|----------|
| N401 | 19 | City | 0 | AN | 02/30 | |
| N402 | 156 | Province | 0 | ID | 02/02 | |
| N403 | 116 | Postal code | 0 | ID | 03/15 | |
| N404 | 26 | Country | 0 | ID | 02/03 | |

Example

N4*Bromptonville*Qc*H3C 2N5*CDN

TD5 – Carrier Detail (Optional)

To specify the transportation method: Kruger may select the carrier and the transportation method

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|-----------------------|--------|----|------------|---|
| TD502 | 66 | Code qualifier | O | ID | 01/02 | Indicates which party selects the carrier |
| TD503 | 67 | Carrier name | X | AN | 02/80 | |
| TD504 | 91 | Transport method | X | ID | 01/02 | |
| TD505 | 387 | Instruction | X | AN | 01/13 5 | Instruction |

Code Qualifier

| Code | Description |
|------|--------------------------|
| 92 | Selected by Kruger |
| 91 | Selected by the supplier |

Transport Method

| Code | Description |
|------|---------------------|
| A | Air freight |
| D | Parcel post |
| H | Picked up by Kruger |
| M | Common carrier |
| R | Train |
| T | Most economical |
| U | Courier service |

Example

TD5*92*PUROLATOR*U*Account number 4395735

Details

PO1 – Line Items (Mandatory)

Loop: maximum 1 00000 iterations

All item information is contained in the PO1, PID, MEA, REF and or MSG

PO1 indicates the line item, quantities, unit of measure, price and product identifiers

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|--------|-----|---|--------|----|-------|--------------------------------|
| PO101 | 350 | Line number | 0 | AN | 01/20 | |
| PO102 | 330 | Quantity order | X | R | 01/15 | |
| PO103 | 355 | Unit of measure | X | ID | 02/02 | See Appendix 4 |
| PO104 | 212 | Price | X | R | 01/17 | |
| PO106 | 235 | Product service ID qualifier (PI) | 0 | ID | 02/02 | Kruger product qualifier |
| PO107 | 234 | Product ID | X | AN | 01/48 | Kruger product number |
| PO1018 | 235 | Product service ID qualifier (VN) | 0 | ID | 02/02 | Vendor product qualifier |
| PO109 | 234 | Product ID | X | AN | 01/48 | Vendor product number |
| PO11 | 235 | Product service ID qualifier (UP) | 0 | ID | 02/02 | Universal product qualifier |
| PO12 | 234 | Product ID | X | AN | 01/48 | Universal product number (UPC) |
| PO13 | 235 | Product service ID qualifier (MA) | 0 | ID | 02/02 | Manufacturer product qualifier |
| PO12 | 234 | Product ID | X | AN | 01/48 | Manufacturer product number |

Product ID Qualifiers

| Code | Description |
|------|-----------------------------------|
| PI | Kruger product qualifier |
| VN | Vendor product qualifier |
| UP | Universal product qualifier (UPC) |
| MA | Manufacturer product qualifier |

Example

PO1*12*125*PC**523.26*PI*38080*VN*836TT*UP*123456789
012*MA*487455

PID – Product Description (Optional)

Loop: maximum 5 iterations

Product textual description

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|-----------------------|--------|----|-------|------------------|
| PID01 | 349 | Item Description Type | M | ID | 01/01 | « F » by default |
| PID05 | 352 | Description | X | AN | 01/80 | |

Example

PID*F***Pressure switch

MEA – Measurements (Optional)

Loop: maximum 10 iterations

To specify physical measurements or counts, dimension, tolerances, variances and weights

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|-----------------------|--------|----|-------|--|
| MEA01 | 737 | Measure | O | ID | 02/02 | (density, PH, absorbance, temperature, etc) see Appendix 5 |
| MEA02 | 738 | Measure qualifier | O | ID | 01/03 | See Appendix 6 |
| MEA03 | 739 | Value | X | R | 01/20 | |
| MEA05 | 740 | Minimum value | X | R | 01/20 | |
| MEA06 | 741 | Maximum value | X | R | 01/20 | |

Example

MEA*AD*CC*25*30

Temperature in Celsius between 25 and 30

REF – Reference Identification (Conditional)

Manufacturer identification

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|-----------------------|--------|----|-------|------------------------|
| REF01 | 128 | Qualifier | M | ID | 02/02 | Identifier |
| REF02 | 127 | Reference | X | AN | 01/30 | Manufacturer name |
| REF03 | 352 | Description | X | AN | 01/80 | Free form text message |

Qualifier List

| Code | Description |
|------|--------------|
| ZN | Manufacturer |

Example

REF*ZN*SQUARE D

MSG – Free Form Message (Optional)

Loop: maximum 3 iterations

Free form message

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|-----------------------|--------|----|--------|--------------|
| MSG01 | 363 | Text message | M | AN | 01/264 | Instructions |

Example

MSG*The Kruger part number must appear on the packing slip

Summary

CTT – Items Total (Optional)

Contains the total number of lines items and the hash total

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|-----------------------|--------|----|-------|----------|
| CTT01 | 354 | Total of line items | M | NO | 01/06 | |
| CTT02 | 347 | Total hash items | O | R | 01/10 | |

Example

CTT*20*40

AMT – Purchase Order Total Monetary Value (Mandatory)

The total monetary value of the transaction

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|-----------------------|--------|----|-------|------------------------|
| AMT01 | 522 | Qualifier | M | ID | 01/03 | « TT » sent by default |
| AMT02 | 782 | Monetary value | M | R | 01/18 | |

Example

AMT*TT*52326

SE – Transaction End (Mandatory)

| Elem. | Ref | ANSI X.12 description | Format | | Size | Comments |
|-------|-----|-----------------------------|--------|----|-------|---------------|
| SE01 | 96 | Number of included segments | M | NO | 01/10 | |
| SE02 | 329 | Transaction number | M | AN | 04/09 | Same as ST_02 |

Example

SE*12*0001

Appendices

Appendix 1

BEG02

Purchase Order Type Code

Appendix 2

REF01

*Reference Identification
Qualifier*

Appendix 3

SAC02

Service, Promotion, Allowance, or
Charge Code

Appendix 4

P0103

Unit or Basis for Measurement
Code

Appendix 5

MEAD1
Measurement Reference
ID Code

Appendix 6

MEAO2
Measurement Qualifier