

A Primer by Pricedex Software Inc.

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Pricedex Software

#### ABOUT THIS DOCUMENT

This document provides the reader with a general guideline on what product information is required to support the North American Automotive Aftermarket with Product Files and Application Data, known to the industry as ACES and PIES files.

Companies utilizing the data and code sets incorporating information from the Product Information Exchange Standard (PIES), the Product Classification Database (PCdb) and the Autocare Brand Table, may do so freely, by permission of the Auto Care Association.

Companies using data from either of the Product Classification Database (PAdb) or the Vehicle Configuration Database (VCdb) do so under subscription license from the Auto Care Association.

Pricedex Software® is an expert aftermarket software solutions and services provider, working globally in the automotive, industrial and commercial vehicle aftermarkets, with Original Equipment Manufacturers and independent aftermarket manufacturers alike.

Aside from its state-of-the-art Product Information Management (PIM) software solution, AutoPIM Pro™, Pricedex® provides a wide range of Partner Services™ to the aftermarket community, at reasonable rates. These services include:

PIES Mapping Services
ACES Mapping Services
VMRS Product Classification Services
Data Cleansing Services
Training & Education on Aftermarket PIES and ACES industry standards.

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### **Example Product Classifications - Automotive Ignition Coil Components**

Product Classifications in the Aftermarket define a) what the Part is (and where it should appear in a catalog), and b) What are the recommended set of attributes used to describe the product. Product Classifications, or "Part Terminologies", are drawn from the Auto Care Association Product Classification Database (PCdb). Heavy Duty components are coded from the Vehicle Maintenance Reporting System (VMRS). Relevant examples appear below.

| Aftermarket<br>Classification<br>Number | Description                     | Fitment<br>Position<br>Options | Recommended Production applicable | ct Attributes (Specifications) – if          | Representative Image   |                         |
|---|---------------------------------|--------------------------------|-----------------------------------|--|--|-------------------------|
| 13416                                   | Direct<br>Ignition Coil<br>Boot | N/A<br>Left<br>Right           | Length                            | Describes Measurement                        |  |                         |
|   |                                 | Front<br>Rear                  | Boot Color                        | Describes Color                              | WAAAAA   |                         |
|   |                                 |                                | Terminal Quantity                 | Describe Quantity                            | iso in the first i |                         |
|   |                                 |                                | Terminal Gender                   | Describe Gender                              | SO THE FULL PROPERTY OF THE PARTY OF THE PAR |                         |
|   |                                 |                                | Mounting Bracket<br>Included      | Describes If Mounting<br>Bracket Is Included | W. W   |                         |
|   |                                 |                                | Mounting Bracket Hole Quantity    | Describes Quantity                           |  |                         |
|   |                                 |                                |                                   |  | Grade Type   | Describes Type Of Grade |
|   |                                 |                                | Boot Material                     | Describes Material                           |  |                         |
|   |                                 |                                | Resistance                        | Describes Measurement                        |  |                         |
|   |                                 |                                | Ignition Type                     | Describes Type                               |  |                         |
|   |                                 |                                | Terminal Type                     | Describes Type Of<br>Terminal                |  |                         |

| Aftermarket<br>Classification<br>Number | Description   | Fitment<br>Position<br>Options | Recommended Production applicable | t Attributes (Specifications) – if        | Representative Image |
|---|---------------|--------------------------------|-----------------------------------|---|----------------------|
| 7060                                    | Ignition Coil | N/A<br>Left                    | Coil Shape                        | Describes Shape                           |                      |
|   |               | Right<br>Front                 | Coil Type                         | Describes Type                            |                      |
|   |               | Rear<br>Center                 | Coil Wire Included                | Describes If Coil<br>Wire Is Included     |                      |
|   |               |                                | Connector Gender                  | Describe Gender                           |                      |
|   |               |                                | Maximum Diameter                  | Describes<br>Measurement                  |                      |
|   |               |                                | Height                            | Describes<br>Measurement                  |                      |
|   |               |                                | Voltage                           | Describes Voltage<br>Measurement          |                      |
|   |               |                                | Mount Type                        | Describes How<br>Mounted                  |                      |
|   |               |                                | Mounting Bracket Included         | Describes If Mounting Bracket Is Included |                      |
|   |               |                                | Mounting Position                 | Describes How<br>Mounted                  |                      |
|   |               |                                | Wire Quantity                     | Describes Quantity                        |                      |
|   |               |                                | Oil Filled                        | Describes If Oil<br>Filled                |                      |

|    | Overall Height                |                               |  |
|----|-------------------------------|-------------------------------|--|
|    | Requires External             | Describes If<br>Requires An   |  |
|    | Resistor                      | External Resistor             |  |
|    | Terminal Gender               | Describe Gender               |  |
|    | Terminal Quantity             | Describe Quantity             |  |
|    |                               | Describes                     |  |
|    | Length                        | Measurement                   |  |
|    |                               | Describes                     |  |
|    | Width                         | Measurement                   |  |
|    | Ignition Type                 | Describes Type                |  |
|    | Terminal Type                 | Describes Type Of<br>Terminal |  |
|    | Mounting Hole Quantity        | Describes Quantity            |  |
|    |                               | Describes If Any              |  |
|    | N 1                           | Installation                  |  |
|    | Mounting Hardware<br>Included | Hardware Is<br>Included       |  |
|    |                               | Describes                     |  |
|    | Cacandamy Pagistance          | Resistance<br>Measurement     |  |
|    | Secondary Resistance          | Measurement                   |  |
|    |                               | Describes                     |  |
|    | Primary Resistance            | Resistance<br>Measurement     |  |
| l. |                               | Tricus di Cilicit             |  |

| Aftermarket<br>Classification<br>Number | Description           | Fitment<br>Position<br>Options | Recommended Product A applicable | ttributes (Specifications) – if | Representative Image |  |  |
|---|-----------------------|--------------------------------|----------------------------------|---------------------------------|----------------------|--|--|
| 10150                                   | Ignition Coil<br>Boot | N/A                            | Material                         | Describes<br>Material           | (Older coil boots)   |  |  |
|   |                       |                                | Color                            | Describes Color                 |                      |  |  |
|   |                       |                                | Attachment Type                  | Describes Type                  |                      |  |  |
|   |                       |                                | Minimum Diameter                 | Describes<br>Measurement        | WWW W                |  |  |
|   |                       |                                | Maximum Diameter                 | Describes<br>Measurement        |                      |  |  |
|   |                       |                                | Length                           | Describes<br>Measurement        |                      |  |  |
|   |                       |                                | Thickness                        | Describes<br>Measurement        |                      |  |  |
|   |                       |                                |                                  |                                 |                      |  |  |

| Aftermarket<br>Classification<br>Number | Description            | Fitment<br>Position<br>Options | Recommended Product Attrapplicable | Representative Image                   |  |
|---|------------------------|--------------------------------|------------------------------------|--|--|
| 2596                                    | Pigtail<br>Connector – | N/A                            | Gender                             | Describes Gender                       |  |
| Ignition Coil                           |                        | Shape                          | Describe Shape                     |  |  |
|   |                        |                                | Quantity                           | Describes Quantity                     |  |
|   |                        |                                | Wiring Harness Length              | Describes Measurement                  |  |
|   |                        |                                | Wire Quantity                      | Describes Quantity                     |  |
|   |                        |                                | Terminal Gender                    | Describe Gender                        |  |
|   |                        |                                | Terminal Quantity                  | Describe Quantity                      |  |
|   |                        |                                |                                    | Describes Gauge<br>Measurement Of Wire |  |
|   |                        |                                | Wire Gauge Measurement             | Or Cable                               |  |
|   |                        |                                | Terminal Type                      | Describes Type Of<br>Terminal          |  |

# **Example Product Classifications - Heavy Duty Front Brake Components**

| Aftermarket<br>Classification<br>Number<br>(VMRS) | Description                    | Recommended Product Attributes<br>(Specifications) – if applicable  | Representative Image |
|---|--------------------------------|---|----------------------|
| 013-001-001                                       | Backing Plate –<br>Front Brake | Configuration Hex Size Inside Diameter Material Maximum Diameter Maximum Outside Diameter Mount Hole Diameter Mount Hole Quantity Mounting Hardware Included New Or Remanufactured Package Contents Pipe Thread Diameter Rust Resistant Shoe Anchor Stud Attached Thickness Wheel Cylinder Mount Hole Diameter Wheel Cylinder Mount Hole Quantity |                      |

| Aftermarket<br>Classification<br>Number<br>(VMRS) | Description                                | Recommended Product Attributes (Specifications) – if applicable  | Representative Image |
|---|--|--|----------------------|
| 013-001-013                                       | Shoe & Lining<br>Assembly -<br>Front Brake | Adjusting Type Anchor Brake Type Coating Material Drum Size FMSI Number Friction Code Friction Material Friction Type GAWR Gross Axle Weight Rating Hardware Included Includes Hardware Kit New or Relined Number of Rivets Number of Shoes Shoe Material Shoe Type/ I.D. Shoe Width Size Web Web Type Width |                      |

#### **Vendor Identifications - Automotive and Heavy Duty Aftermarket**

A Manufacturer, and its Brand, have unique codes assigned in the Aftermarket to identify specifically, who the Parent Company is, which division of the Parent 'owns' the brand, and what is the Brand Code for the product in question. These are used for numerous identification and linking capabilities.

For example, if you are using 'Logos' in your content, or repeatable 'Features and Benefit Bullets' or 'Marketing Statements' for your company, brand, or product type, these code sets help identify, in a PIES file, what content should be applied 'globally' to products, without repeating the data for each particular part number.

In the case of an Automotive Aftermarket Company, the following code styles are used:

**Parent Company: CQXQ** 

**Brand Division: CWMD** 

**Brand: DFCH** 

In the case of a Heavy Duty Aftermarket Company, the codes are drawn from Table 34 of the VMRS to denote:

Make: DTNAX

**Brand: FELPRO** 

**Company: TNNCO** 

#### **Part Interpretation - Vehicle Applications (Automotive)**

Typically, in an ACES file, the basic fitment data included would be:

- 1. Part Classification (to identify the Component)
- 2. Year (Year Range)/ Make/ Model/ (Sub-Model, if Necessary)/Engine (# Cylinders, Displacement)/ and other attributes of the vehicle as necessary to limit the specific application, and Region (i.e. US, Mexico, Canada, others meaning the vehicle is SOLD in that particular country. If there are no differentiations between countries, a country does not have to be declared. However, declaring a country 'forces' the creation of additional vehicle records for other countries.)

An example of a 'limiter' or 'Constraint', as it is called in the industry, for your product categories would likely be attributes of the Engine Possible Engine Attributes include the following:

**Engine Manufacturer:** 

# of Cylinders:

**Displacement (liters)** 

Displacement (cc)

Displacement (cubic inches)

**Block Type** 

**Engine VIN Code** 

**Engine Version** 

Valves per Engine

**Aspiration** 

**Fuel Type** 

#### Fuel Delivery Method may be another 'limiter':

**Fuel Delivery Type:** 

**Fuel Delivery Sub-Type:** 

**Fuel System Control Type:** 

**Fuel System Design:** 

3. Part Number

<u>SPECIAL NOTE:</u> In North America, vehicles are expressed by Year Make Model Engine for lookup. If the particular vehicles you are cataloging have a Serial Number Range, the Serial Number Ranges must be declared as a 'Qualifier' to the vehicle.

#### **Part Interpretation - Heavy Duty**

Unlike Automotive, the Heavy Duty aftermarket relies not on the 'callout' of a vehicle or piece of rolling stock, but rather, the Part Specifications, the Part Cross References, and an image or a line drawing. While Year Make Model call outs are ideal for trim and body parts, system specifications are much more critical to the identification of parts in the HD Aftermarket. This makes the Product Information File critical, to ensure that the provider of data has defined enough 'form-fit-function' attributes, Cross References, and images and/or line drawings.

#### **PIES Files - What a Reseller Wants**

The following are a list of 'Attributes' to the Product the automotive resellers generally require as their 'minimum' requirements. 'Minimum Requirements' generally mean the data is Mandatory if it is going to be included in a Point of Sale and/or Catalog system. We have also included a 'Recommended List' of additional attributes which Vendors 'like to have'. In the world of Heavy Duty, the OE and/or Distributor has three file types into which the following set of data will be generated – for Product, Pricing, and Digital Assets, respectively. In the Automotive Aftermarket, there is one file type – PIES XML – in which the entire data set can be delivered.

| PIES Section | Attribute Name         | Purpose  | Mandatory | Optional | Notes  |
|--------------|------------------------|--|-----------|----------|--|
| Header       | PIES Version           | Identification of the version for machine consumption purposes   | Yes       |          |  |
|              | Blanket Effective Date | Date the file becomes 'valid' to publish   | Yes       |          |  |
|              | Language Code          | (English) – EN   | Yes       |          |  |
|              | Technical Contact      | Name of person responsible for creating file   | Yes       |          |  |
|              | Contact e-Mail         | Email address for person responsible for creating file.  | Yes       |          |  |
| Market Copy  |                        | Used to convey broad, reusable statements about the Company, the Brand, the Product Category, or the Product Classification. Up to 2000 Character text for EACH of the above | Yes       |          | The form of this data is in 'bulleted' Features and Benefits' statements about the Category, the Brand, or the Company. It is provided once in a PIES file and the data can be |

| Item          | Hazardous Material              | A flag to indicate whether  | Yes       |          | coded to apply to the 'Company', the 'Brand', or the Part Terminology so that the content properly appears in the distributor's electronic catalog in the right places. If assigned to a part terminology, the Features and Benefits bullets will be published to each part that is part of that category. |
|---------------|---------------------------------|---|-----------|----------|--|
| item          | Code                            | the product contains Hazardous Material   | 163       |          |  |
|               | Item Level GTIN                 | Barcode in EAN format   | Yes       |          |  |
|               | Part Number                     | If multiple part numbers used for transactions, i.e. Marketing Part Number and Part Number, both to be sent in this field | Yes       |          |  |
|               | Brand AAIA ID/VMRS ID           | Four (Five) Letter Code – see above in document (DFCH)  | Yes       |          |  |
|               | Brand AAIA Label/VMRS<br>ID     | Text String Label identifying Brand (Diamond)   | Yes       |          |  |
| PIES Section  | Attribute Name                  | Purpose   | Mandatory | Optional | Notes  |
| ITEM (cont'd) | ACES Applications               | A flag to indicate this part<br>number has vehicle<br>applications associated with<br>it in an ACES File                  | Yes       |          |  |
|               | Selling Package Quantity        |   | Yes       |          |  |
|               | Selling Package Unit of Measure |   | Yes       |          |  |
|               | Container Type                  | Describes, by code, the type of packaging (i.e. Box, Bag,   | Yes       |          |  |

|                      |                               | Card, Clamshell, etc.)   |           |          |       |
|----------------------|-------------------------------|--|-----------|----------|-------|
|                      | Quantity per Application      | Maximum Quantity used in an application                                  | Yes       |          |       |
|                      | Available Date                | Date product is available to order                                       | Yes       |          |       |
|                      | Minimum Order<br>Quantity     | Minimum of Eaches in an order  | Yes       |          |       |
|                      | AAIA Product Category<br>Code | Also known as MPC Code<br>(Typically, 570202 for<br>Ignition Coils)      | Yes       |          |       |
|                      | Part Terminology ID           | Part Classification Code (see above)                                     | Yes       |          |       |
|                      | Description – DES             | 80 character description of product                                      | Yes       |          |       |
|                      | Description –MKT              | 2000 character marketing description of product                          |           | Yes      |       |
|                      | Description – SHO             | 20 Character Short Description of product                                | Yes       |          |       |
|                      | Description – KEY             | Keywords to help search for product                                      | Yes       |          |       |
|                      | Description - SLA             | Slang Description or 'alias words' for product                           | Yes       |          |       |
|                      | Description – ASM             | 2000 characters to provide a textual list of vehicles on which part fits |           | Yes      |       |
|                      | Description – LAB             | Description of Product appearing on its Label                            |           | Yes      |       |
| PIES Section         | Attribute Name                | Purpose  | Mandatory | Optional | Notes |
| Prices               | Price – ZRMP                  | Retail "MAP" Price (all other pricing sent separately)                   | Yes       |          |       |
|                      | Price UOM                     | Typically "PE" meaning Per<br>Each                                       | Yes       |          |       |
| Extended Information | Country Code                  | Country of Origin Code (i.e. US, JP, CN)                                 | Yes       |          |       |
|                      | Emission Code                 | 1- Legal in US, 2- Not in CA, 3-Off Road                                 | Yes       |          |       |
|                      | Import Code – HSB             | Harmonized Tariff Code   | Yes       |          |       |

|              |                       | (Schedule B)                      |           |          |                           |
|--------------|-----------------------|-----------------------------------|-----------|----------|---------------------------|
|              | Lifecycle Code – LIF  | From PIES Table, identifies       | Yes       |          |                           |
|              |                       | 0 Proposed                        |           |          |                           |
|              |                       | 1 Released                        |           |          |                           |
|              |                       | 2 Available to Order              |           |          |                           |
|              |                       | 3 Electronically Announced        |           |          |                           |
|              |                       | 4 Announced                       |           |          |                           |
|              |                       | 5 Temporarily                     |           |          |                           |
|              |                       | 6 Renumbered                      |           |          |                           |
|              |                       | 7 Superseded                      |           |          |                           |
|              |                       | 8 Discontinued                    |           |          |                           |
|              |                       | 9 Obsolete                        |           |          |                           |
|              |                       | A Available Only While            |           |          |                           |
|              |                       | Supplies Last                     |           |          |                           |
|              | Popularity Code - NPC | National Pop Codes                | Yes       |          |                           |
|              |                       | <b>A</b> Top 60% of Product Group |           |          |                           |
|              |                       | Sales Value (Units x \$, Hits,    |           |          |                           |
|              |                       | etc.)                             |           |          |                           |
|              |                       | <b>B</b> Next 20% of Product      |           |          |                           |
|              |                       | Group Sales Value                 |           |          |                           |
|              |                       | <b>C</b> Next 15% of Product      |           |          |                           |
|              |                       | Group Sales Value                 |           |          |                           |
|              |                       | <b>D</b> Last 5% of Product Group |           |          |                           |
|              |                       | Sales Value                       |           |          |                           |
|              |                       | <b>N</b> New Item 3 Months, 6     |           |          |                           |
|              |                       | months                            |           |          |                           |
|              |                       | <b>W</b> Non-Stocking Item        |           |          |                           |
| PIES Section | Attribute Name        | Purpose                           | Mandatory | Optional | Notes                     |
| Attributes   | Feature and Benefit   |                                   | Yes       |          | If the market copy code   |
|              | Bullet 1              |                                   |           |          | above has covered the     |
|              |                       |                                   |           |          | specific features and     |
|              |                       |                                   |           |          | benefits of the product   |
|              |                       |                                   |           |          | category and there are    |
|              |                       |                                   |           |          | no specific (to the part) |
|              |                       |                                   |           |          | features and benefits,    |
|              |                       |                                   |           |          | this can be omitted.      |
|              | Feature and Benefit   |                                   | Yes       |          | If the market copy code   |

|                 | Bullet 2                 |     | above has covered the     |
|-----------------|--------------------------|-----|---------------------------|
|                 | bullet 2                 |     |                           |
|                 |                          |     | specific features and     |
|                 |                          |     | benefits of the product   |
|                 |                          |     | category and there are    |
|                 |                          |     | no specific (to the part) |
|                 |                          |     | features and benefits,    |
|                 |                          |     | this can be omitted.      |
|                 | Feature and Benefit      | Yes | If the market copy code   |
|                 | Bullet 3                 |     | above has covered the     |
|                 |                          |     | specific features and     |
|                 |                          |     | benefits of the product   |
|                 |                          |     | category and there are    |
|                 |                          |     | no specific (to the part) |
|                 |                          |     | features and benefits,    |
|                 |                          |     | this can be omitted.      |
|                 | Feature and Benefit      | Yes | If the market copy code   |
|                 | Bullet 4                 |     | above has covered the     |
|                 |                          |     | specific features and     |
|                 |                          |     | benefits of the product   |
|                 |                          |     | category and there are    |
|                 |                          |     | no specific (to the part) |
|                 |                          |     | features and benefits,    |
|                 |                          |     | this can be omitted.      |
|                 | Attributes as defined by | Yes | See the beginning of      |
|                 | Part Classification,     |     | the document for the      |
|                 | above                    |     | recommended list of       |
|                 |                          |     | attributes to describe    |
|                 |                          |     | the product's form, fit,  |
|                 |                          |     | function and              |
|                 |                          |     | performance               |
|                 |                          |     | characteristics.          |
| Package Details | Pack Level 1 (Item)      | Yes |                           |
|                 | GTIN                     | Yes |                           |
|                 | Height                   | Yes |                           |
|                 | Length                   | Yes |                           |
|                 | Depth                    | Yes |                           |
|                 | Weight                   | Yes |                           |

| Orderable Packag  | ge Yes or No                                | Yes |     |  |
|-------------------|---|-----|-----|--|
| Quantity of Each  | es In package                               | Yes |     |  |
| Pack Level 2 (Box | )   |     | Yes |  |
| GTIN              |   |     | Yes |  |
| Height            |   | Yes |     |  |
| Length            |   | Yes |     |  |
| Depth             |   | Yes |     |  |
| Weight            |   | Yes |     |  |
| Orderable Packag  | ge Yes or No                                | Yes |     |  |
| Quantity of Each  | es Quantity of Pack Level 1 packages in box | Yes |     |  |

| PIES Section    | Attribute Name        | Purpose                                     | Mandatory           | Optional | Notes |
|-----------------|-----------------------|---|---------------------|----------|-------|
| Package Details | Pack Level 3 (Case)   |   |                     | Yes      |       |
| (cont'd)        |                       |   |                     |          |       |
|                 | GTIN                  |   |                     | Yes      |       |
|                 | Height                |   | Yes                 |          |       |
|                 | Length                |   | Yes                 |          |       |
|                 | Depth                 |   | Yes                 |          |       |
|                 | Weight                |   | Yes                 |          |       |
|                 | Orderable Package     | Yes or No                                   | Yes                 |          |       |
|                 | Quantity of Eaches    | Quantity of Pack Level 2                    | Yes                 |          |       |
|                 |                       | packages in case                            |                     |          |       |
|                 | Pack Level 4 (Pallet) |   |                     | Yes      |       |
|                 | GTIN                  |   |                     | Yes      |       |
|                 | Height                |   |                     | Yes      |       |
|                 | Length                |   |                     | Yes      |       |
|                 | Depth                 |   |                     | Yes      |       |
|                 | Weight                |   |                     | Yes      |       |
|                 | Orderable Package     | Yes or No                                   |                     | Yes      |       |
|                 | Quantity of Eaches    | Quantity of Pack Level 3 packages in pallet |                     | Yes      |       |
|                 | Stacking Factor       | How Many Levels of Cases on a Pallet        |                     | Yes      |       |
| NOTE            |                       | IF ANY PRODUCTS CONTAIN                     | Mandatory if        |          |       |
|                 |                       | HAZARDOUS MATERIALS,                        | products contain    |          |       |
|                 |                       | THEN AN ADDITIONAL                          | hazardous materials |          |       |
|                 |                       | HAZARDOUS MATERIALS                         |                     |          |       |
|                 |                       | SECTION MUST BE                             |                     |          |       |
|                 |                       | COMPLETED                                   |                     |          |       |

| PIES Section | Attribute Name             | Purpose                       | Mandatory | Optional | Notes                              |
|--------------|----------------------------|-------------------------------|-----------|----------|------------------------------------|
| Interchanges | Type Code                  | O – This is the OE Part       |           | Yes      | A minimum of two                   |
|              |                            | S – This is a substitute Part |           |          | cross references, one              |
|              |                            | U – User defined code         |           |          | being the OEM Part, is recommended |
|              | Brand AAIA ID/VMRS         |                               |           | Yes      |                                    |
|              | Table 34 ID                |                               |           |          |                                    |
|              | Brand AAIA Label/VMRS      |                               |           | Yes      |                                    |
|              | Table 34 Label             |                               |           |          |                                    |
|              | Part Number                |                               |           | Yes      |                                    |
|              | <b>Quality Grade Level</b> | P- Premium                    |           | Yes      |                                    |
|              |                            | O- OEM                        |           |          |                                    |
|              |                            | S- Standard                   |           |          |                                    |
|              | Interchange Notes          |                               |           | Yes      |                                    |
| NOTE         |                            | Typically, the receiver of    |           | Yes      |                                    |
|              |                            | data relies on the            |           |          |                                    |
|              |                            | manufacturer to identify      |           |          |                                    |
|              |                            | interchanges. A preferred     |           |          |                                    |
|              |                            | minimum is 2 interchange      |           |          |                                    |
|              |                            | records – the OE part and a   |           |          |                                    |
|              |                            | minimum of 1 competitor       |           |          |                                    |

| PIES Section   | Attribute Name      | Purpose  | Mandatory   | Optional | Notes |
|----------------|---------------------|--|---|----------|-------|
| Digital Assets | File Name           | Name of file   |   |          |       |
|                | Asset Type          | P04 – Primary Photo P01 – Photo out of package P02 – Photo in Package P03 – Photo Lifestyle View INS – Instruction Manual DRW – Line Drawing HMS – Hazmat Sheet BRO – Brochure DAS – Data Sheet          | P04- Primary photo is generally mandatory minimum | Yes      |       |
|                | File Type           | JPG, GIF, BMP, PDF, etc.   | Yes   | Yes      |       |
|                | Representation      | (A) Actual (R) Representative  | Yes   | Yes      |       |
|                | Resolution          | Resolution in Pixels   | Yes   | Yes      |       |
|                | Color Mode          | RGB, CMYK  | Yes   | Yes      |       |
|                | Orientation View    | Top, Front, Left, Bottom,<br>Right   | Yes   | Yes      |       |
|                | Background          | WHITE  | Yes   | Yes      |       |
|                | Asset Height        |  | Yes   | Yes      |       |
|                | Asset Width         |  | Yes   | Yes      |       |
|                | UOM for Measurement | Usually in Inches or Pixels (IN or PX)   | Yes   | Yes      |       |
| NOTE           |                     | Typical Digital Asset Package includes a Primary Image, or multiple views of product. Instructions and Data Sheets are also useful digital assets. Digital assets can also include video or audio files. |   |          |       |

NOTE – When engaged with Pricedex in preparing and mapping PIES files, Pricedex will ensure that all Industry coding, VMRS/AAIA Brand Coding, proper Unit of Measure, Country Codes, etc., are populated. Additional services we can provide would be 'repurposing' image files to meet a particular trading partner's naming conventions, file sizes etc. Additional services such as Watermarking images, etc., can be performed. Additionally, we have Excel-template worksheets with which you can more easily gather your data. These will be provided upon request at the commencement of the project.