GROUP PURCHASING DEPARTMENT

SPECIFICATIONS MP06-EU LABELS (ODETTE FOMAT)

MICHELIN

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A better way forward

SPECIFICATIONS: MP06-EU LABELS (ODETTE format)

Contents

1. PURPOSE

The purpose of these specifications is to carry out the routing, flow management and traceability of raw materials received by MICHELIN. These functions are carried out in two ways:

- Direct reading of uncoded markings by materials handling personnel

- Reading of bar code information either by a portable reading device or by a fixed reading device.

MP06 label will be extended progressively to cover all of the products received by MICHELIN.

2. FIELD OF APPLICATION

RM Caoutchouterie

The. label will be used to identify :

- The packaging unit, e.g:

  • a re-usable metal container (1 ton or 500 kg) or made of wood or another material for elastomers.

  • a pallet of bags or drums containing liquids, or a big-bag of chemical products.

  • a wagon, track or maritime container of elastomers, a load or liquid products,

- The measurement sample, which may be taken from (or which may accompany) the batch received.

This ODETTE format MP06-EU label will be essentially intended for the European units of MICHELIN Group.

3.1. General conditions

The labels are to be fitted so that the bar codes may be decoded upon receipt, as described in paragraph 8.2.5.

They must be easy to spot and must not present any risks of raw material contaminating, nor must their supports.

The MP06 labels of prior deliveries must be removed.

In the case of two labels being requested, one is to remain on the packaging and the other must be detachable.

3.2 Specific conditions

3.2.1 Metal containers of 500 kg or 1 MT

The label and/or its support are to be placed in the top left hand comer of one of the long sides of the container.

3.2.2 Bulk packaging

When the wagon, container or truck is considered to be a single wilt of packaging, the current supports may possible be adapted.

3.2.3 Disposable packaging

In particular this concerns wooden or cardboard boxes, pallets covered with plastic film and pallets of bags or drums.

The label and/or its support are to be placed on the long side of the packaging unit.

3.2.4 Big-Bag for chemical products

The label is to be placed in the clear plastic pouch attached to the container on a seam at the top of the Big-bag.

4. SIZES AND CONTENT - GENERAL

This specification refers to the document "ODETTE" OALIA ETI1 dated July 1990 - 2nd edition. The format and dimensions are given below.

P= Product Code ; Q= Quantity ; V= Supplier Code ; S= Label number; H= Batch number.
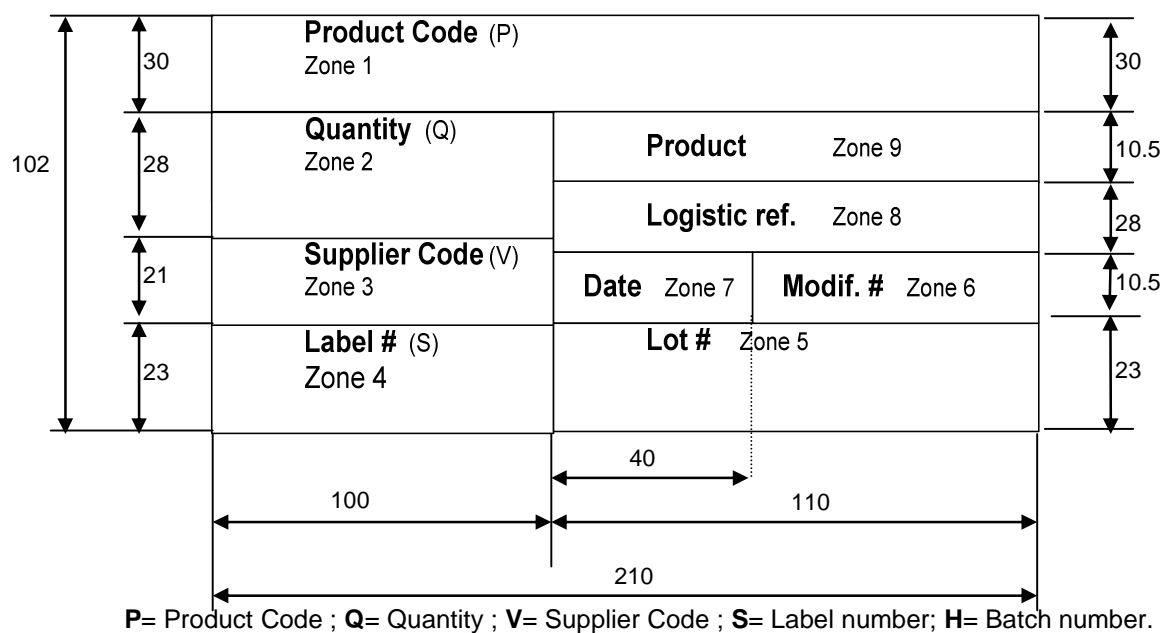
The zones (1), (2), (3), (4) and (5) are obligatory. The data contained therein must appear both in bar code and uncoded forms.

The zone (8) is adapted for the Michelin logistical requirements.

As there is only a limited amount of space, the length of the data used for the label fields is less than the maximum length defined in the TDED (U.N. Trade data Element Directory) (Dictionnaire des données commerciales des Nations Unies).

The TDED numbers used in this document are intended to link label data and AVIEXP or ASN data ("Avis d'Expédition" or "Advance Shipping Notice").

In case of Fax transmission, the data contained on the label must correspond with AVIEXP OR ASN message data or any other message.

The quantity datum (numeric) will be aligned on the left and will not have any insignificant zeroes or decimal places.

The other alpha-numeric data will also be aligned on the left and not contain any unnecessary space. Example:

:

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5. TITLE AND DATA

Each zone will be separated by a fine line and must contain, if applicable, its title and data identifier in the top left hand comer on the right of the title.It is recommended that external lines are not drawn to mark off the width of the label (210 mm). The titles of the data zones will usually be printed in the supplier's language in 3 mm high letters (capitals).

6. DATA IDENTIFIER OR IDENTIFIER CODE

Each element of the bar code will have an identifier and a character at the beginning and the end.

The identifier, as its name indicates, identifies the data element and it must figure whenever there are several data in bar code form. The identifier will not be printed in the uncoded version of the bar coded data. It is to be composed by a single alphabetic character.

Below identifiers are defined by ODETTE - GALIA.

P: Product number

Q: Quantity

V: Supplier code

S: Label number

H: Batch number

The identifiers are to be 3 mm high and in bold characters.

7. DATA DEFINITION

The TDED codes listed hereunder are the new codes attributed to ODETTE and correspond to the data used in version 3 of the AVIEXP or ASN message. The characteristics of the bar code are detailed in chapter 8.

7.1 Product code: zone reference (1)

(TDED: 7304)

Number attributed by the buyer to the product in the packaging.

This will be the **MICHELIN product code**, as defined in the contract orders and/or the requirement schedules.

The uncoded characters will be in bold and 13 mm high.

Unless stipulated otherwise, it will be 9 characters long.

The identifier used will be "**P**".

7.2 Quantity zone ' reference (2)

(TDED - 6270)

The uncoded characters must be 13 mm high.

The .number of significant numbers that may be printed in the space available is to be 6.

The unit of measure, unless otherwise stipulated, will be kilograms (KGM - TDED 6410).

It will be placed on the right of the uncoded quantities and in 5 mm high characters; it is not to be bar coded.

The weight indicated will be the net weight of the packaged unit as indicated on the delivery slip and the AVIEXP or ASN message,

The identifier used will be "Q",

7.3 Supplier code zone: reference (3)

(TDED - 3296)

As per the ODETTE procedure, the supplier code will be defined as the code attributed to the manufacturer by the buyer. This will be the MICHELIN code of the manufacturing site.

The uncoded characters must be 5 mm high and 6 characters in length at maximum.

The identifier used will be "**V**".

7.4 Label number zone - reference (4)

(TDED - 7246)

The label number of each unit of packaging (also call the serial number at MICHELIN), not necessarily in sequential order will be attributed by the supplier and not the buyer.

Each supplier (or manufacturer) must not, for a given product, repeat the label numbers within the space of less than a year.

The uncoded characters must be 5 mm high and of 9 figures in length at maximum.

The identifier used will be "**S**".

7.5 Batch Number zone: reference (5)

(TDED = 7338)

Reference number attributed by the supplier (or the manufacturer) to identify the products from a same production batch.

The uncoded characters are to be 8 mm high. This height, which is not recommended by Odette, is the maximum compatible with the space available.

The maximum length is 10 characters.

The identifier used will be "**H**".

7.6 Modification index zone: reference (6)

(TDED = 1736)

This zone is not used by MICHELIN.

7.7 Date.zone: reference (7)

(TDED-2837)

This zone is not used by MICHELIN

7.8 Logistic reference zone - reference (8)

This information is intended to improve the logistics between the supplier and the customers of the supplier. For Michelin, the product description (designation and origin) is an essential of the receipt logistics.

This description is to include the two following blocks:

Block. 1: TDED 7008-1 - Product designation.

This will be the MICHELIN name (simplified generic name) of the product.

It will be written in characters 13 mm high, the width of which will be adapted to suit the number of characters used. The maximum number of characters is 18.

Block.2: TDED, 7008-2 - Name of the supplier and production site

This will be the MICHELIN name of the production site.

The letters will be 8 mm high. The maximum number of characters is 27.

7.9 Product zone - reference (9)

(TDED = 7008)

This zone is not used by MICHELIN.

<div style="background-color:#1f5fbf;color:white;padding:4px;">

8. PRINTING AND BAR CODE QUALITY

</div>

8.1 Quality of the printing

White paper and black print is to be used with a PCS (print contrast) of 75 % minimum. To reduce the risk of distortion, we recommend using paper of 160 à 170 g/m2, regardless of whether single or composite paper (paper and support together) is used and also that it be weather resistant.

The label must be quite resistant so that it may be read upon delivery to its destination.

8.2 Quality of bar codes

The bar code used will be 39 (3 from 9) with the following constraints.

8.2.1. Configuration of the code

The four characters ($, /, +, %) of the code 39 are not to be used on the Odette label

8.2.2. Dimension and density of the code.

The height of the bars is to be 13 mm, or as close to this size as the printer allows

For all bar codes, the average width of the narrow elements is to be 0.33 mm with a tolerance of:

$$t = \pm\, 0.11$$

" t " is a function of the average width of the narrow element [X] and in ratio to the elements [N]

$$t == \pm\, 4/27(N - 2/3)\, X$$

The ratio of the nominal width of the wide elements to the nominal width of the narrow elements will be 3, with an acceptable range of 2.8 to 3.2.

8.2.3. Space between characters

The space between two characters of the code 39 [I] will be as close as possible to the average narrow element as possible on the print out.

$$I\ (min.) = X\ \text{with tolerance}\ t$$

8.2.4. Silence_zones

The margins at the beginning and end (silence zones) will be at least 6.35 mm wide.

8.2.5. Quality assurance constraints

It's the supplier's responsibility to create labels which satisfy the preceding specifications.

There is checking equipment available which permits the suppliers to conform to these specifications.

For a better understanding of the code 39. refer to USS code 39 "Specifications of symbols in code 39", available from AIM Europe.

Whilst respecting the above specifications contained in norm ISO 15416 (ANSI X3-182-1990) "Bar code Print quality guide line" The bar code must be class A or B.

After final adjustments and before mass implementation, each supplier have to send a copy of MP06 Label for print approval to MICHELIN Clermont.