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DRAFT

Extract from IMPLEMENTATION GUIDE
TRANSACTION "FABRIC TECHNICAL SHEET"

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XML Schemas repository: <http://www.ebiz.enea.it/moda-ml/repository/schema/draft/default.asp>

Guides repository: <http://www.ebiz.enea.it/moda-ml/repository/guide/draft/default.asp>

Guide filename: G008-eBIZ-FabricTechnicalSheet.pdf

0. PREMISE

This document contains a proposal for the updating and extension of eBIZ specifications starting from the eBIZ version 2018. Under the name of 'Draft version' it is reported the result of an extensive work of analysis and consultation aimed at developing and maintaining eBIZ specifications.

In particular, the content of this proposal is the result of various activities, mainly those carried out within the framework of the **TRICK project** funded by the European Commission: grant agreement 958352, call H2020-LOW-CARBON-CIRCULAR-INDUSTRIES-2020 / H2020-LCCI-2020-EASME-twostage.

The technical contents are backwards compatible with the latest official published version, with the exclusion of the totally new concepts added explicitly for the version that are thought as incremental evolution of the knowledge base.

1. BUSINESS DESCRIPTION

1.1 Scope

The present guide has been issued to assist the companies of the Textile-Clothing sector in the implementation of the standard XML document type "FABRIC TECHNICAL SHEET", providing all the instruction required for its use in any context of e-commerce between Apparel Producers and Fabric Producers.

All the rules required for the construction and validation of the document are embedded into the specific XML-Schema, which is detailed in section "Implementation guide".

1.2 Generalities

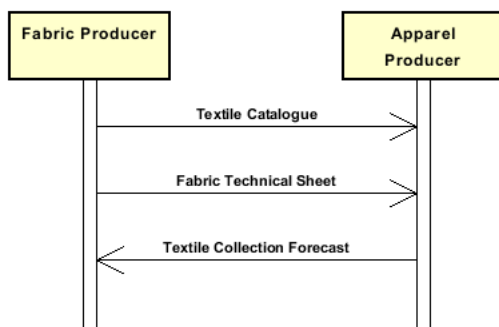
This document is used to provide the Customer (Buyer) with the technical data relevant to describe and characterize the fabric article; i.e.:

- general data
- construction details
- measurements of color fastness, dimensional stability and mechanical properties

The single sheet provides the technical characteristics of groups of homogeneous articles.

1.3. Possible scenario

Selection of fabrics



2. IMPLEMENTATION GUIDE

2.1 General structure of XML document

All the business data that can be exchanged through this class of documents are shown in the following "document structure", that provides a simplified vision of the Schema.

In particular:

- the two numbers following each element define its "cardinality" (minimum and maximum number of occurrences); the minimum equal zero indicates that the element is optional, the minimum greater than zero indicates that is mandatory;
- the bold character denotes the complex elements (aggregates of simple elements) that were built for the sake of functionality and re-usability of some complex informations sets. The child elements in each parent element are easily spotted as "indented";
- the symbol "@" denotes an attribute of the preceding element; here "the usage indicator (optional, required, ...)" is shown in square brackets.

Structure

TEXSheet

@msgfunction [Optional] [Default= OR]

@version [Optional] [Default= 2018-1]

@useProfile [Optional]

```
| THeader 1-1
| | msgN 1-1
| | - choose -
| | | msgID 0-1
| | | - or -
| | | docID 0-1
| | | @numberingOrg [Optional]
| | | - end choose -
| | | msgDate 1-1
| | | @dateForm [Optional]
| | | refDoc 0-9
| | | @docType [Required]
| | | | docID 1-2
| | | | @numberingOrg [Optional]
| | | | docDate 0-1
| | | | @dateForm [Optional]
| | | | season 0-1
| | | | @numberingOrg [Optional]
| | | | @codeList [Optional]
| | | | @listName [Optional]
| | | | @listVersion [Optional]
| | | | itemID 0-1
| | | | attachment 0-1
| | | | @uid [Optional]
| | | | | fileName 0-1
| | | | | @numberingOrg [Optional]
| | | | | binaryObject 0-1
| | | | | @format [Optional]
| | | | | @mime [Optional]
| | | | | @encoding [Optional]
| | | | | @characterSet [Optional]
| | | | | externalReference 0-99
| | | | | | uri 1-1
| | | | | | @isURL [Optional] [Default= true]
| | | | | | mimeTypeCode 0-1
| | | | | | formatCode 0-1
| | | | | | encodingCode 0-1
| | | | | | characterSetCode 0-1
| | | buyer 0-1
| | | @logo [Optional]
| | | @sender [Optional]
| | | | id 1-1
| | | | @numberingOrg [Optional]
| | | | additionalIdentifier 0-9
| | | | @numberingOrg [Optional]
```

- | | *@idQualifier [Optional]*
- | | legalName 0-1
- | | dept 0-1
- | | subDept 0-1
- | | person 0-1
- | | *@email [Optional]*
- | | *@phone [Optional]*
- | | *@fax [Optional]*
- | | street 0-1
- | | city 0-1
- | | subCountry 0-1
- | | country 0-1
- | | postCode 0-1
- | | **geoCoordinates 0-1**
- | | *@um [Optional] [Default= DEGD]*
- | | *@geoReferenceSystem [Optional]*
- | | | xGeoCoord 1-1
- | | | yGeoCoord 1-1
- | | | zGeoCoord 0-0

| | **supplier 1-1**

- | | *@logo [Optional]*
- | | *@sender [Optional]*
- | | id 1-1
- | | *@numberingOrg [Optional]*
- | | additionalIdentifier 0-9
- | | *@numberingOrg [Optional]*
- | | *@idQualifier [Optional]*
- | | legalName 0-1
- | | dept 0-1
- | | subDept 0-1
- | | person 0-1
- | | *@email [Optional]*
- | | *@phone [Optional]*
- | | *@fax [Optional]*
- | | street 0-1
- | | city 0-1
- | | subCountry 0-1
- | | country 0-1
- | | postCode 0-1
- | | **geoCoordinates 0-1**
- | | *@um [Optional] [Default= DEGD]*
- | | *@geoReferenceSystem [Optional]*
- | | | xGeoCoord 1-1
- | | | yGeoCoord 1-1
- | | | zGeoCoord 0-0

| | **thirdParty 0-5**

- | | *@VAT [Optional]*
- | | *@role [Required]*
- | | *@sender [Optional]*
- | | id 1-1
- | | *@numberingOrg [Optional]*
- | | legalName 0-1
- | | dept 0-1
- | | subDept 0-1
- | | person 0-1
- | | *@email [Optional]*
- | | *@phone [Optional]*
- | | *@fax [Optional]*
- | | street 0-1
- | | city 0-1
- | | subCountry 0-1
- | | country 0-1
- | | postCode 0-1
- | | **geoCoordinates 0-1**
- | | *@um [Optional] [Default= DEGD]*
- | | *@geoReferenceSystem [Optional]*
- | | | xGeoCoord 1-1
- | | | yGeoCoord 1-1

- | | | zGeoCoord 0-0
- | | note 0-99
- | | @numberingOrg [Optional]
- | | @codeList [Optional]
- | | @noteLabel [Optional]

TTbody 1-1

TTGroup 0-unbounded

- | artGroup 0-1
- | | @numberingOrg [Optional]
- | | @codeList [Optional]
- | | @listName [Optional]
- | | @listVersion [Optional]

- | artGroupName 0-1

TTGitem 0-unbounded

- | | lineN 0-1
- | | | @VAT [Optional]

refDoc 0-9

- | | | @docType [Required]
- | | | docID 1-2
- | | | | @numberingOrg [Optional]
- | | | docDate 0-1
- | | | | @dateForm [Optional]
- | | | season 0-1
- | | | | @numberingOrg [Optional]
- | | | | @codeList [Optional]
- | | | | @listName [Optional]
- | | | | @listVersion [Optional]

- | | itemID 0-1

attachment 0-1

- | | | @uid [Optional]
- | | | | fileName 0-1
- | | | | | @numberingOrg [Optional]
- | | | | binaryObject 0-1
- | | | | | @format [Optional]
- | | | | | @mime [Optional]
- | | | | | @encoding [Optional]
- | | | | | @characterSet [Optional]

externalReference 0-99

- | | | | uri 1-1
- | | | | | @isURL [Optional] [Default= true]
- | | | | | mimeTypeCode 0-1
- | | | | | formatCode 0-1
- | | | | | encodingCode 0-1
- | | | | | characterSetCode 0-1

- | | fabricNameSupplier 0-1

- | | fabricNameBuyer 0-1

- | | art 0-1
- | | | @numberingOrg [Optional]
- | | | @codeList [Optional]
- | | | @listName [Optional]
- | | | @listVersion [Optional]

- | | pattern 0-unbounded
- | | | @numberingOrg [Optional]
- | | | @codeList [Optional]
- | | | @listName [Optional]
- | | | @listVersion [Optional]

- choose -

- | | | color 0-unbounded
- | | | | @numberingOrg [Optional]
- | | | | @codeList [Optional]
- | | | | @listName [Optional]
- | | | | @listVersion [Optional]

- or -

colorCard 0-unbounded

colorCardItem 1-unbounded

- | | | | color 1-2
- | | | | | @numberingOrg [Optional]

```

| | | | | @codeList [Optional]
| | | | | @listName [Optional]
| | | | | @listVersion [Optional]
| | | | | CIELab 0-unbounded
| | | | | @illuminant [Optional]
| | | | | @standardObserver [Optional]
| | | | | | L 1-1
| | | | | | a 1-1
| | | | | | b 1-1
| | | | | refDoc 0-1
| | | | | @docType [Required]
| | | | | | docID 1-2
| | | | | | | @numberingOrg [Optional]
| | | | | | docDate 0-1
| | | | | | | @dateForm [Optional]
| | | | | | season 0-1
| | | | | | | @numberingOrg [Optional]
| | | | | | | @codeList [Optional]
| | | | | | | @listName [Optional]
| | | | | | | @listVersion [Optional]
| | | | | | itemID 0-1
| | | | | | attachment 0-1
| | | | | | | @uid [Optional]
| | | | | | | | fileName 0-1
| | | | | | | | | @numberingOrg [Optional]
| | | | | | | | binaryObject 0-1
| | | | | | | | | @format [Optional]
| | | | | | | | | @mime [Optional]
| | | | | | | | | @encoding [Optional]
| | | | | | | | | @characterSet [Optional]
| | | | | | | externalReference 0-99
| | | | | | | | uri 1-1
| | | | | | | | | @isURL [Optional] [Default= true]
| | | | | | | | | mimeTypeCode 0-1
| | | | | | | | | formatCode 0-1
| | | | | | | | | encodingCode 0-1
| | | | | | | | | characterSetCode 0-1
| | | | | description 0-unbounded
| | | | | | @ln [Optional]
| | | | | - end choose -
| | | | | added 0-unbounded
| | | | | | @numberingOrg [Optional]
| | | | | | @addType [Optional]
| | | | | | description 0-unbounded
| | | | | | | @ln [Optional]
| | | | | | note 0-99
| | | | | | | @numberingOrg [Optional]
| | | | | | | @codeList [Optional]
| | | | | | | @noteLabel [Optional]
| | | | | refDoc 0-9
| | | | | @docType [Required]
| | | | | | docID 1-2
| | | | | | | @numberingOrg [Optional]
| | | | | | docDate 0-1
| | | | | | | @dateForm [Optional]
| | | | | | season 0-1
| | | | | | | @numberingOrg [Optional]
| | | | | | | @codeList [Optional]
| | | | | | | @listName [Optional]
| | | | | | | @listVersion [Optional]
| | | | | | itemID 0-1
| | | | | | attachment 0-1
| | | | | | | @uid [Optional]
| | | | | | | | fileName 0-1
| | | | | | | | | @numberingOrg [Optional]
| | | | | | | | binaryObject 0-1
| | | | | | | | | @format [Optional]
| | | | | | | | | @mime [Optional]

```

- | | | | | *@encoding [Optional]*
- | | | | | *@characterSet [Optional]*
- | | | | | **externalReference 0-99**
- | | | | | | uri 1-1
- | | | | | | *@isURL [Optional] [Default= true]*
- | | | | | | mimeTypeCode 0-1
- | | | | | | formatCode 0-1
- | | | | | | encodingCode 0-1
- | | | | | | characterSetCode 0-1

generalChar 1-1

- | fabricNameSupplier 0-1
- | fabricNameBuyer 0-1
- | season 0-1
- | | *@numberingOrg [Optional]*
- | | *@codeList [Optional]*
- | | *@listName [Optional]*
- | | *@listVersion [Optional]*
- | tradeMark 0-1
- | customsStat 0-1
- | **fabricCompos 1-1**
- | | percCompos 1-9
- | | | *@fibre [Required]*
- | | | *@materialSource [Optional]*
- | | | *@recyclingProcessMethod [Optional]*
- | | | *@percSourcesRenewable [Optional]*
- | dyeProcess 0-1
- | dyeStuff 0-1
- | careLabel 0-1
- | minLot 0-1
- | | *@um [Required]*
- | minLotExclusive 0-1
- | | *@um [Required]*
- | avgDeliveryDD 0-1
- | estFaultiness 0-1
- | note 0-99
- | | *@numberingOrg [Optional]*
- | | *@codeList [Optional]*
- | | *@noteLabel [Optional]*

construction 1-1

- | fabricWeightM 1-1
- | | *@um [Optional] [Default= GRM]*
- | fabricWeightM2 0-1
- | | *@um [Optional] [Default= GRM]*
- | fabricWidth 0-1
- | | *@um [Optional] [Default= CMT]*
- | fabricCutWidth 0-1
- | | *@um [Optional] [Default= CMT]*
- | pieceLength 0-1
- | | *@um [Optional] [Default= MTR]*
- | weave 0-1
- | warpCount 0-9
- | | *@method [Optional] [Default= ISO-2060]*
- | | *@fibre [Optional]*
- | weftCount 0-9
- | | *@method [Optional] [Default= ISO-2060]*
- | | *@fibre [Optional]*
- | warpEndsN 0-1
- | weftEndsN 0-1
- | bowingWarp 0-1
- | | *@method [Optional]*
- | bowingWeft 0-1
- | | *@method [Optional]*
- | checksFlaw 0-1
- | | *@method [Optional]*
- | weftDev 0-1
- | | *@method [Optional]*
- | resin 0-1

colorFastness 0-3

@colorType [Optional]

CFlight 0-1
@method [Optional] [Default= ISO-105-B02]
CFwater 0-1
@method [Optional] [Default= ISO-105-E01]
CFwash 0-1
@method [Optional] [Default= ISO-105-C06]
CFdryClean 0-1
@method [Optional] [Default= ISO-105-D01]
CFperspirAcid 0-1
@method [Optional] [Default= ISO-105-E04]
CFperspirAlk 0-1
@method [Optional] [Default= ISO-105-E04]
CFrubDry 0-1
@method [Optional] [Default= ISO-105-X12]
CFrubWet 0-1
@method [Optional] [Default= ISO-105-X12]
CFrubOrgSolv 0-1
@method [Optional] [Default= ISO-105-D02]
CFironDry 0-1
@method [Optional] [Default= ISO-105-X11]
CFironWet 0-1
@method [Optional] [Default= ISO-105-X11]
CFspotWater 0-1
@method [Optional] [Default= ISO-105-E07]
CFxeno 0-1
@method [Optional]

dimensionStability 0-1

DSsteamLength 0-1
@method [Optional] [Default= DIN-53894-2]
DSsteamWidth 0-1
@method [Optional] [Default= DIN-53894-2]
DSwashLength 0-1
@method [Optional] [Default= ISO-5077/6330]
DSwashWidth 0-1
@method [Optional] [Default= ISO-5077/6330]
DSdryCleanLength 0-1
@method [Optional] [Default= ISO-3175]
DSdryCleanWidth 0-1
@method [Optional] [Default= ISO-3175]

mechanicalProps 0-1

MPseamSlipWarp 0-3
@method [Optional] [Default= NFG-7117]
@application [Optional]
MPseamSlipWeft 0-3
@method [Optional] [Default= NFG-7117]
@application [Optional]
MPbreakWarp 0-1
@method [Optional] [Default= ISO-1394-1]
@application [Optional]
MPbreakWeft 0-1
@method [Optional] [Default= ISO-1394-1]
@application [Optional]
MPabrasion 0-3
@method [Optional] [Default= EN-12947]
@application [Optional]
MPpilling 0-3
@method [Optional] [Default= UNI-E-1512434]
@application [Optional]
MPcrease 0-1
@method [Optional] [Default= ISO-9867]
MPelastWarp 0-3
@method [Optional] [Default= BS 4294-68]
@application [Optional]
MPelastWeft 0-3
@method [Optional] [Default= BS 4294-68]
@application [Optional]
MPtearWarp 0-3

```

| | | @method [Optional]
| | | @application [Optional]
| | | MPtearWeft 0-3
| | | @method [Optional]
| | | @application [Optional]
| | | MPbending 0-1
| | | @method [Optional]
| | | @application [Optional]
| | | MPSpray 0-1
| | | @method [Optional]
| | | @application [Optional]
| | | ecoFeatures 0-1
| | | qtyEcoFeatures 1-19
| | | @um [Optional] [Default= PPM]
| | | @method [Optional]
| | | | element 1-1
| | | - choose -
| | | | equation 1-1
| | | | specValue 1-1
| | | | @um [Optional]
| | | | @source [Optional]
| | | | @method [Optional]
| | | | @application [Optional]
| | | | @CV [Optional]
| | | | equation 0-1
| | | | specValue 0-1
| | | | @um [Optional]
| | | | @source [Optional]
| | | | @method [Optional]
| | | | @application [Optional]
| | | | @CV [Optional]
| | | - or -
| | | | rangeBoundary 2-2
| | | | equation 1-1
| | | | specValue 1-1
| | | | @um [Optional]
| | | | @source [Optional]
| | | | @method [Optional]
| | | | @application [Optional]
| | | | @CV [Optional]
| | | - end choose -
| | | qlyEcoFeatures 1-9
| | | @method [Optional]
| | | | element 1-1
| | | | useIndic 1-1

```

2.2 Detailed description of document elements

Following tables show all elements (complex and simple) used in this document. Description includes: 1) element's information: xml tag, name, brief description, data type and syntax constraints; 2) information about use of the element in a particular position in the document: xpath and possible associated notes.

2.2.1 Complex elements (Aggregate Business Information Entities)

Complex elements are those elements whose content is composed of other elements (childs). Complex elements are alphabetically ordered.

attachment	an attached document. An attachment can refer to an external document or be included with the document being exchanged
buyer	details of the Buyer (party that buys the good or service that is object of the current collaborative process) - base type: Nad,
CIELab	color point in the CIELab color space
colorCard	color card for a textile product
colorCardItem	item of the color card
colorFastness	details of color fastness measures of fabric
construction	construction data and features included in the technical sheet of the fabric article
dimensionStability	details of dimensional stability measures of fabric
ecoFeatures	ecological features of fabric or yarn (declared in the Technical Sheet)
externalReference	details about an external object, such as a document stored at a remote location
fabricCompos	composition of the fabric according to the Directory 97/37/CE
generalChar	general data included in the technical sheet of the fabric article
geoCoordinates	geographical coordinates
mechanicalProps	details of measurements of the mechanical properties of fabric
qlyEcoFeatures	qualitative ecological features of fabric or yarn (declared in the Technical Sheet)
qtyEcoFeatures	quantitative ecological features of fabric or yarn (declared in the Technical Sheet)
rangeBoundary	Descriptor of a boundary of a range of values declared for a property or a parameter
refDoc	identification of a document and of an item thereof, to which the message makes reference
supplier	details of the Supplier (party that supplies the good or service that is object of the current collaborative process) - base type: Nad,
thirdParty	identification and details of the Third Party, different from Sender and Receiver of the document - base type: Nad,
TTbody	body of the document FABRIC TECHNICAL SHEET
TTGitem	line item of TEXTILE product group - base type: ,
TTGroup	articles grouping of the TEXTILES Technical sheet - base type: ,
TTheader	Header of the document FABRIC TECHNICAL SHEET

2.2.2 Simple elements (Basic Business Information Entities)

Simple elements are those elements whose content is characterized by a data type plus a domain of possible values. Simple elements are alphabetically ordered.

a	"a" dimension of the CIELab color system - base type: decimal,
added	additional code of the product (complementing the formers) - base type: string, max length: 80,
additionalIdentifier	additional identification code of a Party, for example customs registries or others - base type: string, max length: 15,
@addType	qualifier of the additional coding of a product - base type: string, cod. table: T44 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T44.xml
@application	force or similar condition (e.g. no. of revolutions) applied in a test as specified within the standard - base type: string, max length: 15,
art	article number of the product - base type: string, max length: 80,
artGroup	code identifying a class of products - base type: string, max length: 40,
artGroupName	description of a class of products - base type: string, max length: 80,
avgDeliveryDD	average time (workdays) between order receipt and delivery of an article, specified by the Supplier - base type: duration,
b	"b" dimension of the CIELab color system - base type: decimal,
binaryObject	a binary large object containing an attached document, Coding 'base64Binary' is recommended. - base type: base64Binary,
bowingWarp	warp bowing - base type: decimal, min inclusive: 0,
bowingWeft	weft bowing - base type: decimal, min inclusive: 0,
careLabel	codification of the care instructions printed on the label (ISO 3758) - base type: string, length: 5,
CFdryClean	measure of color fastness to dry cleaning - base type: string, max length: 10,
CFironDry	measure of color fastness to dry ironing - base type: string, max length: 10,
CFironWet	measure of color fastness to wet ironing - base type: string, max length: 10,
CFlight	measure of color fastness to light - base type: string, max length: 10,
CFperspirAcid	measure of color fastness to acid perspiration - base type: string, max length: 10,
CFperspirAlk	measure of color fastness to alkaline perspiration - base type: string, max length: 10,
CFrubDry	measure of color fastness to dry rubbing - base type: string, max length: 10,

CFrubOrgSolv	measure of color fastness to rubbing with organic solvents - base type: string, max length: 10,
CFrubWet	measure of color fastness to wet rubbing - base type: string, max length: 10,
CFspotWater	measure of color fastness to spotting water - base type: string, max length: 10,
CFwash	measure of color fastness to washing - base type: string, max length: 10,
CFwater	measure of color fastness to water - base type: string, max length: 10,
CFxeno	measure of color fastness to Xeno-light - base type: string, max length: 10,
@characterSet	the character set of the binary object (examples UTF-8, UTF-16, Windows-1252, ISO-8859-7,..) - base type: normalizedString,
characterSetCode	the character set of an external document (examples UTF-8, UTF-16, Windows-1252, ISO-8859-7,..) - base type: normalizedString,
checksFlaw	flaw in checks - base type: decimal, min inclusive: 0,
city	name of the city (town, village) - base type: string, max length: 40,
@codeList	it specifies the URL where the list of codes used to make an instance of the element can be found - base type: string, max length: 255,
color	colour number of the product, when not included in the model or fabric code - base type: string, max length: 15,
@colorType	type of color to which a "color fastness" value refers - base type: string, cod. table: NT26 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT26.xml
country	code of the nation - base type: string, cod. table: T10 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T10.xml
customsStat	statistic code assigned by Customs to a specified product (TARIC code) - base type: string, max length: 15,
@CV	coefficient of variation (CV) of a measurement - base type: decimal,
@dateForm	format used for the date - base type: string, cod. table: NT29 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT29.xml
dept	name or code of a department - base type: string, max length: 40,
description	free text description. The content of the element must be unique, it might be translated and repeated into more languages (thus no more than one instance for each language). - base type: string, max length: 250,
docDate	date of issue of the referenced document, according to one of the patterns YYYY-MM-DD, YYYY-MM-DD:HH-MM or YYYY-WW. - base type: string,
docID	identification number of the referenced document - base type: string, max length: 80,
@docType	type or class to which the referenced document belongs

	- base type: string, cod. table: T21 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T21.xml
DSdryCleanLength	measure of dimensional stability to dry cleaning (length) - base type: string, max length: 10,
DSdryCleanWidth	measure of dimensional stability to dry cleaning (width) - base type: string, max length: 10,
DSsteamLength	measure of dimensional stability to steaming press (length) - base type: string, max length: 10,
DSsteamWidth	measure of dimensional stability to steaming press (width) - base type: string, max length: 10,
DSwashLength	measure of dimensional stability to washing (length) - base type: string, max length: 10,
DSwashWidth	measure of dimensional stability to washing (width) - base type: string, max length: 10,
dyeProcess	dye process applied to the fabric - base type: string, cod. table: T15 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T15.xml
dyeStuff	dye stuff used in the fabric dye process - base type: string, cod. table: T16 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T16.xml
element	chemical element or compound relevant to the analysis of fabric or yarn - base type: string, cod. table: T49 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T49.xml
@email	electronic mail address of the contact person within a Party - base type: string, max length: 250,
@encoding	specifies the decoding algorithm of the binary object - base type: normalizedString,
encodingCode	the encoding/decoding algorithm used with the external object (example is 'base64Binary') - base type: normalizedString,
equation	sign or symbol used in a mathematical equation - base type: string, cod. table: T50 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T50.xml
estFaultiness	percent faultiness of an article, estimated by the Supplier - base type: decimal, min inclusive: 0, max inclusive: 100, fraction digits: 2,
fabricCutWidth	usable width of the fabric (for garments manufacturing) as technical specification - base type: decimal, min inclusive: 0, fraction digits: 2,
fabricNameBuyer	name given to the fabric (article/pattern) by the Buyer - base type: string, max length: 250,
fabricNameSupplier	name given to the fabric (article/pattern) by the Supplier - base type: string, max length: 250,
fabricWeightM	weight per metre of the fabric as technical specification - base type: decimal, min inclusive: 0, fraction digits: 2,
fabricWeightM2	weight per square metre of the fabric as technical specification - base type: decimal, min inclusive: 0, fraction digits: 2,
fabricWidth	width of the fabric as technical specification - base type: decimal, min inclusive: 0, fraction digits: 2,
@fax	fax number of the contact person within a Party - base type: string, max length: 35,
@fibre	type of fibre used in a textile product - base type: string, cod. table: T19

	http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T19.xml
fileName	unique identifier (name) of the file - base type: string, max length: 255,
@format	the format of the binary content (examples xml, pdf, doc,...) - base type: string,
formatCode	the format of the external object (examples xml, pdf, doc,...) - base type: normalizedString,
@geoReferenceSystem	georeference system adopted for the coordinate (in example wgs84 with decimal degree or degree with minute and seconds) - base type: string,
id	primary identification code of a Party; it is recommended the format: nation code (ISO 3166) + VAT identification number (11 crt), with the qualifier "numberingOrg"= MF - base type: string, max length: 15,
@idQualifier	Qualification of the identifier. - base type: string,
@illuminant	CIE light source - base type: string, cod. table: T59 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T59.xml
@isURL	it indicates if the referred element is an URL (true) or not (false) - base type: boolean,
itemID	number of the line/item of the referenced document - base type: string, max length: 40,
L	"L" value of the CIELab color system - base type: decimal, min inclusive: 0,
legalName	legal name - base type: string, max length: 250,
lineN	number of the line item of the present message (xml document); it is set by the role that produces the document. Usually it is a progressive number, but not always. - base type: positiveInteger, min inclusive: 1, max inclusive: 9999,
@listName	the name of the list of codes used to make an instance of the element (it might be thought as descriptive element, i.e. 'fabric printing technologies', or not, i.e. "T264") - base type: string, max length: 40,
@listVersion	it specifies the version of the list of codes used to make an instance of the element - base type: string, max length: 6,
@ln	Language code. - base type: string, cod. table: NT60 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT60.xml
@logo	company logo (URL of the image jpeg or gif). It is recommended that the width of the image does not exceed 640 pixel. - base type: string, max length: 255,
@materialSource	Indicates whether the material is virgin or comes from recycling or reuse processes - base type: string, cod. table: T306 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T306.xml
@method	standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 80,
@mime	the mime type of the binary object - base type: normalizedString,
mimeCode	mime type of the external object - base type: normalizedString,
minLot	minimum order quantity of a product requested by the Supplier - base type: decimal, min inclusive: 0, fraction digits: 2,

minLotExclusive	minimum order quantity of a product requested by the Supplier for an exclusive color - base type: decimal, min inclusive: 0, fraction digits: 2,
MPabrasion	measure of abrasion resistance - base type: string, max length: 10,
MPbending	measure of the resistance to repeated bending - base type: string, max length: 10,
MPbreakWarp	measure of the break strength (warp) - base type: string, max length: 10,
MPbreakWeft	measure of the break strength (weft) - base type: string, max length: 10,
MPcrease	crease recovery measure of the fabric after induced wrinkling - base type: string, max length: 10,
MPelastWarp	measure of the elasticity (warp) - base type: string, max length: 10,
MPelastWeft	measure of the elasticity (weft) - base type: string, max length: 10,
MPpilling	measure of pilling resistance - base type: string, max length: 10,
MPseamSlipWarp	measure of the seam slippage (warp) - base type: string, max length: 10,
MPseamSlipWeft	measure of the seam slippage (weft) - base type: string, max length: 10,
MPspray	spray test measure - base type: string, max length: 10,
MPtearWarp	measure of the tear strength (warp) - base type: string, max length: 10,
MPtearWeft	measure of the tear strength (weft) - base type: string, max length: 10,
msgDate	date of issue of the present message (xml document), according to one of the patterns YYYY-MM-DD, YYYY-MM-DD:HH-MM or YYYY-WW. - base type: string,
@msgfunction	function performed by the present message with regards to the transmission - base type: string, cod. table: NT18 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT18.xml
msgID	key identifier of the business document in the information system of the issuing Party. In case of more despatches of the same business document, it is unchanged. - base type: string, max length: 35,
msgN	identification number given to the message (xml document) by its issuer. In case of more despatches of the same business document, it changes. - base type: string, max length: 35,
note	free text or structured (computer processing) note. For note structuring use the attributes "noteLabel" and "codelist" - base type: string, max length: 350,
@noteLabel	subject qualifier of a note - base type: string, max length: 35,
@numberingOrg	code specifying the organisation who has created or owns the coding or numbering system - base type: string, cod. table: NT6 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT6.xml
pattern	pattern/design number of the product, when not included in the article code - base type: string, max length: 15,

percCompos	fiber rate in the product composition - base type: decimal, min inclusive: 0, max inclusive: 100, fraction digits: 2,
@percSourcesRenewable	indicates the percentage of renewable sources - base type: decimal,
person	name of a person (e.g. contact person within an organization) - base type: string, max length: 40,
@phone	phone number of the contact person within a Party - base type: string, max length: 35,
pieceLength	length of the piece - base type: decimal, min inclusive: 0, fraction digits: 2,
postCode	code defining the postal zone - base type: string, max length: 10,
@recyclingProcessMethod	recycling process method - base type: string, cod. table: T307 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T307.xml
resin	resin (coating) percentage in finished weight - base type: decimal, min inclusive: 0,
@role	Third Party role qualifier - base type: string, cod. table: NT2 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT2.xml
season	sale season; defined as: season (1 crt) + year (4 crt) - season: S/S=1 A/W=2 Spring=3 Summer=4 Autumn=5 Winter=6: for more than four seasons use alphabetic sequence: 1st season=A 2nd season=B etc.etc. - base type: string, max length: 15,
@sender	qualifier that specifies the Party issuing of the document - base type: boolean,
@source	party who has provided the data - base type: string, cod. table: NT12 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT12.xml
specValue	value requested for a property or a parameter that is measured - base type: decimal,
@standardObserver	CIE average chromatic response definition - base type: string, cod. table: T60 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T60.xml
street	street and building number identifying a location - base type: string, max length: 80,
subCountry	short name or code of the sub-country entity - base type: string, max length: 9,
subDept	name or code of a department - base type: string, max length: 40,
tradeMark	name of the official trademark of a specified product (DEPRECATED, use Brand or Product Line). - base type: string, max length: 50,
@uid	unique element identifier within the xml document - base type: string,
@um	specification of the unit of measure - base type: string, cod. table: NT7 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT7.xml
uri	Uniform Resource Identifier (URI) that identifies the external object as an Internet resource - base type: normalizedString,
useIndic	indicates if a given element is used in the specified object (fabric, yarn, ...)

	- base type: boolean,
@useProfile	use profile to which the present document is compliant if it was agreed by the parties. It is suggested a URI with reference to the firms or the URL of the profile. - base type: string,
@VAT	VAT rate or code (DEPRECATED, use dtScheme element) - base type: string, cod. table: NT16 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT16.xml
@version	Dictionary version from which the instance has been created - base type: string, cod. table: NT100 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_NT100.xml
warpCount	measure of thinness of the warp thread - base type: string, max length: 10,
warpEndsN	number of warp threads in 1 centimetre - base type: decimal, min inclusive: 0, fraction digits: 1,
weave	type of weaving used in the manufacturing of fabric - base type: string, cod. table: T17 http://www.ebiz.enea.it/moda-ml/repository/codelist/draft/gc_T17.xml
weftCount	measure of thinness of the weft thread - base type: string, max length: 10,
weftDev	deviation from right angle in weft - base type: decimal, min inclusive: 0,
weftEndsN	number of weft threads in 1 centimetre - base type: decimal, min inclusive: 0, fraction digits: 1,
xGeoCoord	geographical coordinate x , corresponding to latitude - base type: decimal,
yGeoCoord	geographical coordinate y , corresponding to longitude - base type: decimal,
zGeoCoord	geographical coordinate z , corresponding to altitude - base type: decimal,

2.3 Suggested best practices

TEXSheet/TTbody/ecoFeatures/qtyEcoFeatures/rangeBoundary (Descriptor of a boundary of a range of values declared for a property or a parameter)

example: in case of interval of values between X and Y

TEXSheet/TTbody/TTGroup/refDoc/docID (identification number of the referenced document)

numberingOrg indicates the role that produced the document identifier (it is allowed to declare two different ones -e.g. customer and supplier - with two docID with different numberingOrg

**TEXSheet/TTbody/TTGroup/TTGitem/colorCard/
colorCardItem/refDoc/docID (identification number of the referenced document)**

numberingOrg indicates the role that produced the document identifier (it is allowed to declare two different ones -e.g. customer and supplier - with two docID with different numberingOrg

TEXSheet/TTHeader/refDoc/docID (identification number of the referenced document)

numberingOrg indicates the role that produced the document identifier (it is allowed to declare two different ones -e.g. customer and supplier - with two docID with different numberingOrg

TEXSheet/TTbody/TTGroup/TTGitem/refDoc/docID (identification number of the referenced document)

numberingOrg indicates the role that produced the document identifier (it is allowed to declare two different ones -e.g. customer and supplier - with two docID with different numberingOrg

TEXSheet/TTbody/ecoFeatures/qtyEcoFeatures/equation (sign or symbol used in a mathematical equation)

Used WHEN the value interval is defined by only one boundary; example is values greater than X

**TEXSheet/TTbody/TTGroup/TTGitem/colorCard/
colorCardItem/refDoc/attachment/externalReference/mimeType (mime type of the external object)**

Use coding from IANA <http://www.iana.org/assignments/media-types/media-types.xml>

TEXSheet/TTHeader/refDoc/attachment/externalReference/mimeType (mime type of the external object)

Use coding from IANA <http://www.iana.org/assignments/media-types/media-types.xml>

**TEXSheet/TTbody/TTGroup/refDoc/attachment/
externalReference/mimeType (mime type of the external object)**

Use coding from IANA <http://www.iana.org/assignments/media-types/media-types.xml>

**TEXSheet/TTbody/TTGroup/TTGitem/refDoc/attachment/
externalReference/mimeType (mime type of the external object)**

Use coding from IANA <http://www.iana.org/assignments/media-types/media-types.xml>

TEXSheet/TTbody/ecoFeatures/qtyEcoFeatures/specValue (value requested for a property or a parameter that is measured)

Used WHEN the value interval is defined by only one boundary; example is values greater than X

2.4 Enumeration tables

List of enumeration tables used in the XML document. You can find all the tables with the corresponding codes at:
<http://www.ebiz.enea.it/eBIZ/imple/eBIZTCU-draft.asp?lingua=en&pag=6>

NT100 - eBIZ TCFUpstream version
NT12 - data source
NT16 - VAT rate or code
NT18 - message function
NT2 - third party qualifier
NT26 - color type
NT29 - format of a date
NT6 - coding system owner/issuer
NT60 - language, codes from ISO 639-1 (subset)
NT7 - unit of measure
T10 - ISO3166 - Country
T15 - dye/print process type
T16 - dyestuff type
T17 - weave type
T19 - fibre type
T21 - type of document
T306 - material circularity attribute
T307 - recycling process method
T44 - additional code type
T49 - chemical elements
T50 - equation sign
T59 - CIE illuminant
T60 - CIE standard observer

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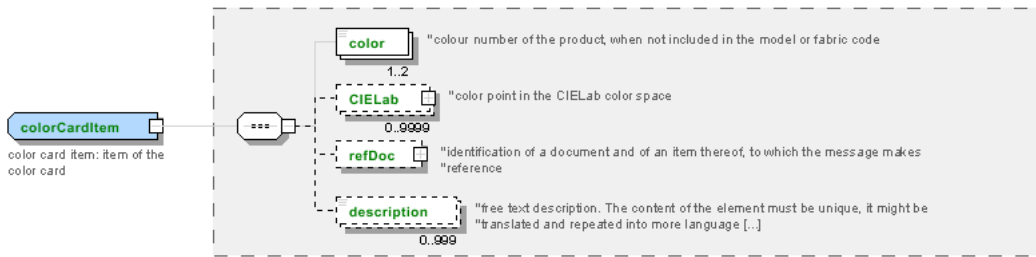
DISCLAIMER

The content of this document represents the views of the authors only and is their sole responsibility; it cannot be considered to reflect the views of the European Commission or any other body of the European Union.

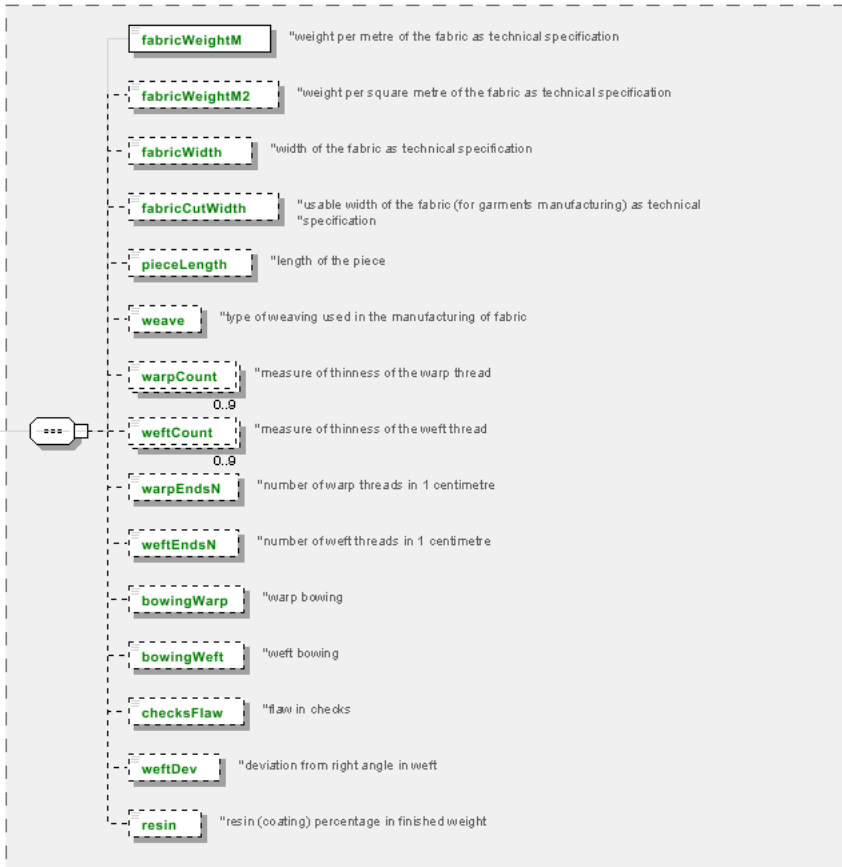
The European Commission does not accept any responsibility for use that may be made of the information it contains.

Annex A

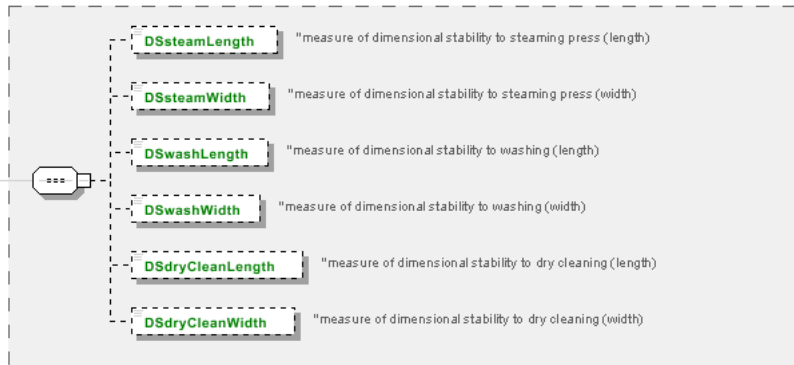
Representative images of the principal complex elements' structure.



construction
 Construction details fabric: construction data and features included in the technical sheet of the fabric article



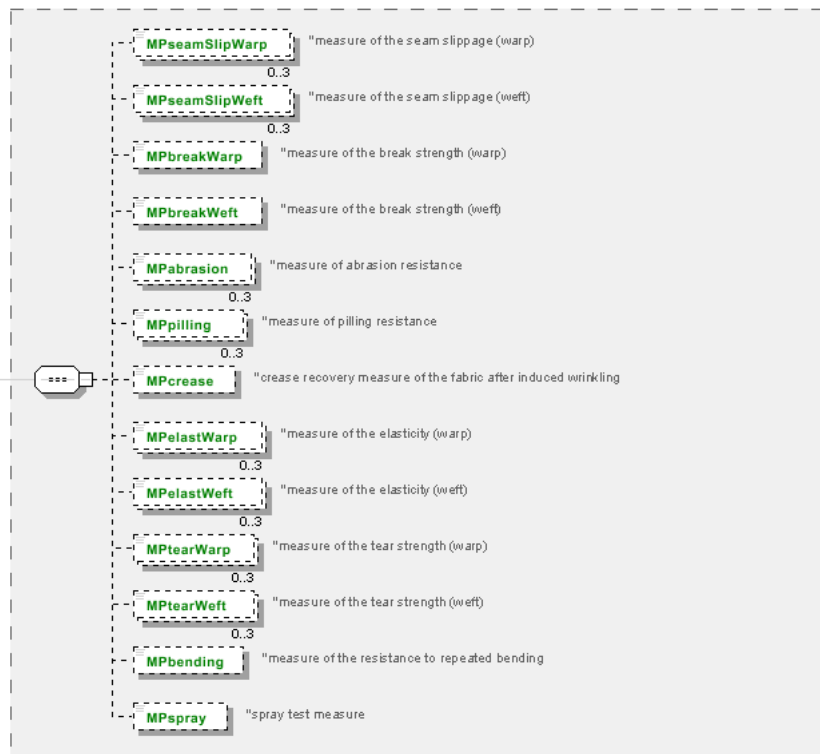
dimensionStability
 Dimensional stability: details of dimensional stability measures of fabric

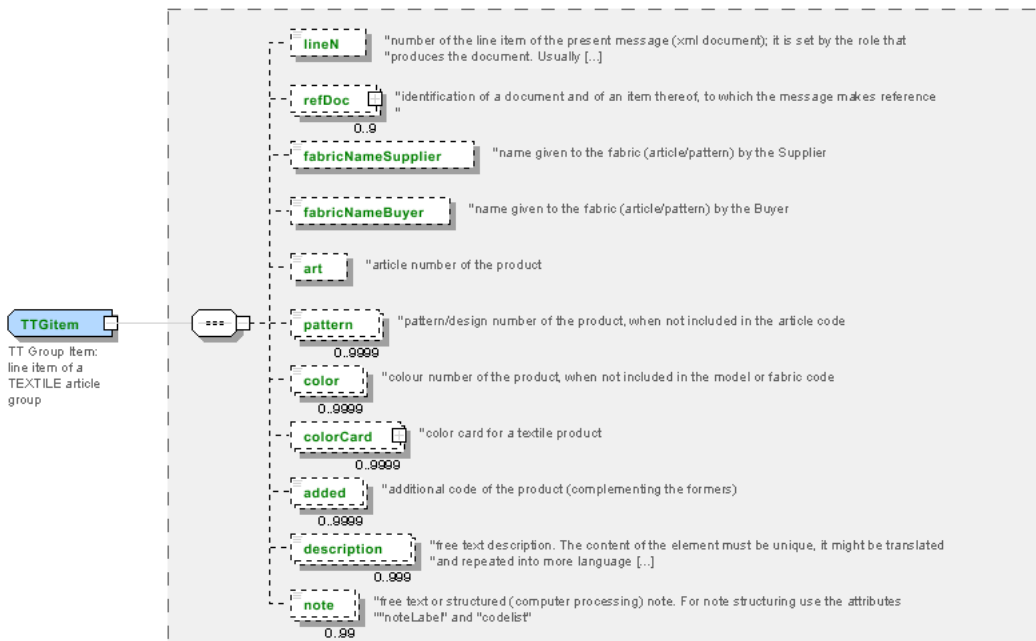
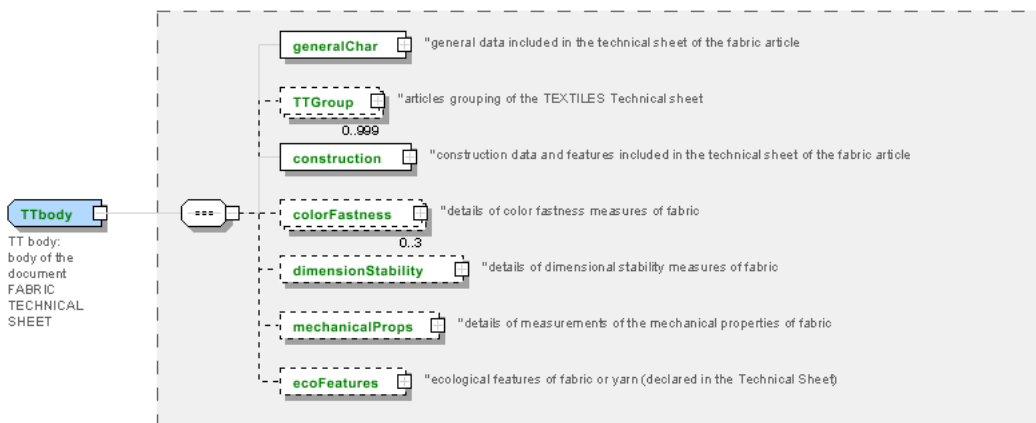
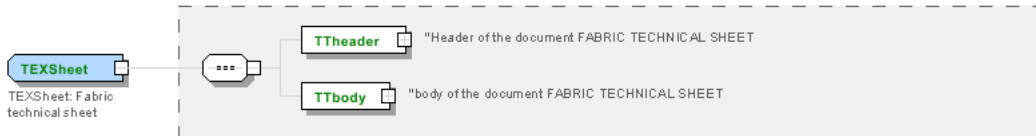
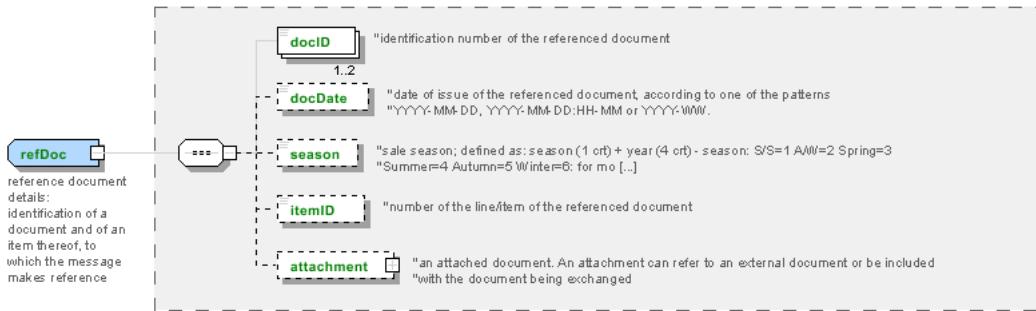


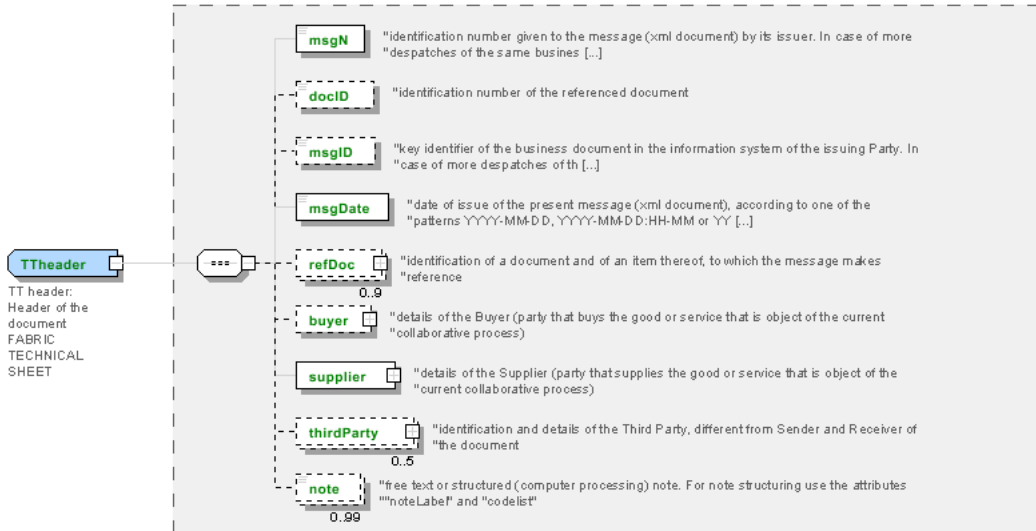
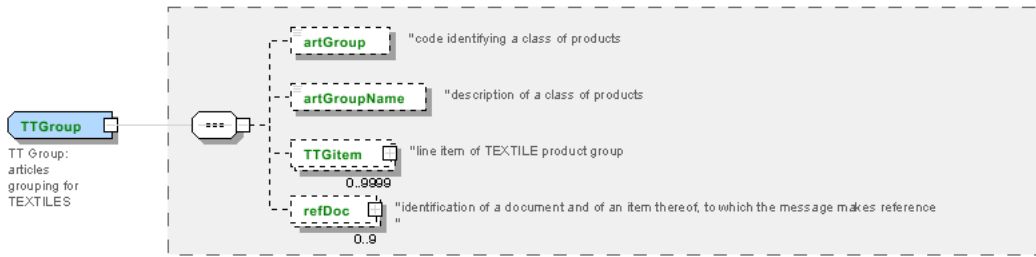
generalChar
 General characteristics fabric: general data included in the technical sheet of the fabric article



mechanicalProps
 Mechanical properties fabric: details of measurements of the mechanical properties of fabric
















Annex B

BS EN 23758: 1994 Textiles - Care Labelling Code Using Symbols

Wash	Description
	Maximum temperature 95°C Mechanical action normal Rinsing normal Spinning normal
	Maximum temperature 95°C Mechanical action reduced Rinsing and gradually reducing temperature (Cool down) Spinning
	Maximum temperature 70°C Mechanical action normal Rinsing normal Spinning normal
	Maximum temperature 60°C Mechanical action normal Rinsing normal Spinning normal
	Maximum temperature 60°C Mechanical action reduced Rinsing at gradually decreasing temperature (Cool down) Spinning reduced
	Maximum temperature 50°C Mechanical action reduced Rinsing at gradually decreasing temperature (Cool down) Spinning reduced
	Maximum temperature 40°C Mechanical action normal Rinsing at gradually decreasing temperature (cool down) Spinning normal
	Maximum temperature 40°C Mechanical action reduced Rinsing at gradually decreasing temperature Spinning reduced
	Maximum temperature 40°C Mechanical action reduced Rinsing normal Spinning normal Do Not Wring By Hand



Maximum temperature 30°C
 Mechanical action much reduced
 Rinsing normal
 Spinning reduced



Hand Wash only
 Do not machine wash
 Maximum temperature 40°C
 Handle with care



Do not wash
 Be cautious when treating in wet stage

Bleach

Description



Chlorine based bleaching allowed.
 Only cold and dilute solution



Do not use Chlorine based bleach

Iron

Description

Setting

Article



Iron at maximum soleplate temperature 200°C

Hot iron

Cotton,
 Linen,
 Viscose or
 Modified
 Viscose



Iron at maximum soleplate temperature 150°C

Warm iron

Polyester
 mixes, Wool



Iron at maximum soleplate temperature 110°C
 Steam ironing may be risky

Cool iron

Acrylic,
 Nylon,
 Acetate,
 Triacetate,
 polyester



Steaming and steam iron treatments are not allowed

Do not iron

Articles which require no ironing

Tumble Dry

Description



Tumble drying possible
Normal drying cycle



Tumble drying possible
Dry at lower temperature setting



Do not tumble dry

Dry Clean

Description



Dry cleaning in all solvents normally used for dry cleaning - this includes all solvents listed for the symbol P, plus Trichloroethylene & 1,1,1, - Trichloroethylene



Dry cleaning in Tetrachloroethylene, Monofluorotrichloroethylene and all solvents listed for the symbol F
Normal cleansing procedures without restrictions



Dry cleaning in the solvents listed in the previous paragraph.
Strict limitations on the addition of water and or mechanical action and or temperature during cleaning and or drying
No self service cleaning allowed



Dry cleaning in Trifluorotrichloroethane, white spirit (distillation temperature between 150°C and 210°C flash point 38°C - 60°C)



Dry cleaning in the solvents listed in the previous paragraph
Strict limitations on the addition of water and or mechanical action during cleaning and or drying
No self service cleaning allowed



Do not dry clean
No stain removal with solvents