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IMPLEMENTATION GUIDE
TRANSACTION "FABRIC TECHNICAL SHEET"

Version: 2011-1

Date of release: 18/11/2011

Document code: G008

XML Schema repository:<http://www.moda-ml.org/moda-ml/repository/schema/v2011-1/default.asp>

Guides repository:<http://www.moda-ml.org/moda-ml/repository/guide/v2011-1/default.asp>

Guide filename: G008-MODA-ML-FabricTechnicalSheet.pdf

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.

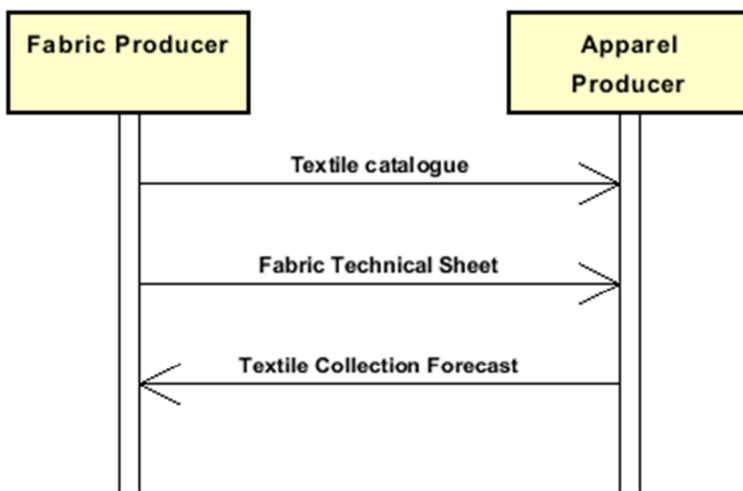
All the rules required for the construction and validation of the document are embedded into the specific XML-Schema, which is detailed in section "Implementation guide".

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

1.3. Possible scenario



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]

THeader 1-1

msgN 1-1

- choose -

msgID 0-1

- or -

docID 0-1

@numberingOrg [Optional]

- end choose -

msgDate 1-1

@dateForm [Optional]

buyer 0-1

@logo [Optional]

@sender [Optional]

id 1-1

@numberingOrg [Optional]

legalName 0-1

dept 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

supplier 1-1

@logo [Optional]

@sender [Optional]

id 1-1

@numberingOrg [Optional]

legalName 0-1

dept 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
note 0-5
@numberingOrg [Optional]
@codeList [Optional]
@noteLabel [Optional]

TTbody 1-1

generalChar 1-1

fabricNameSupplier 1-1
fabricNameBuyer 0-1
season 0-1
tradeMark 0-1
customsStat 0-1

fabricCompos 1-1

percCompos 1-9
@fibre [Required]
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 0-5
@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
 equation 1-1
 specValue 1-1
 @um [Optional]
 @method [Optional]
 equation 0-1
 specValue 0-1
 @um [Optional]
 @method [Optional]

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.

buyer	details of the Buyer - base type: , (XPath: TEXSheet/TTheader/buyer) 0-1
colorFastness	details of color fastness measures of fabric (XPath: TEXSheet/TTbody/colorFastness) 0-3 - note: <i>this data group can be repeated when there are different values for different types of colors (light-dark-pastel)</i>
construction	construction data and features included in the technical sheet of the fabric article (XPath: TEXSheet/TTbody/construction) 1-1
dimensionStability	details of dimensional stability measures of fabric (XPath: TEXSheet/TTbody/dimensionStability) 0-1
ecoFeatures	ecological features of fabric or yarn (declared in the Technical Sheet) (XPath: TEXSheet/TTbody/ecoFeatures) 0-1
fabricCompos	composition of the fabric according to the Directory 97/37/CE (XPath: TEXSheet/TTbody/generalChar/fabricCompos) 1-1
generalChar	general data included in the technical sheet of the fabric article (XPath: TEXSheet/TTbody/generalChar) 1-1
mechanicalProps	details of measurements of the mechanical properties of fabric (XPath: TEXSheet/TTbody/mechanicalProps) 0-1
qlyEcoFeatures	qualitative ecological features of fabric or yarn (declared in the Technical Sheet) (XPath: TEXSheet/TTbody/ecoFeatures/qlyEcoFeatures) 1-9
qtyEcoFeatures	quantitative ecological features of fabric or yarn (declared in the Technical Sheet) (XPath: TEXSheet/TTbody/ecoFeatures/qtyEcoFeatures) 1-19
supplier	details of the Supplier - base type: , (XPath: TEXSheet/TTheader/supplier) 1-1
TTbody	body of the document FABRIC TECHNICAL SHEET (XPath: TEXSheet/TTbody) 1-1
TTheader	Header of the document FABRIC TECHNICAL SHEET (XPath: TEXSheet/TTheader) 1-1

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.

@application	<p>force or similar condition (e.g. no. of revolutions) applied in a test as specified within the standard</p> <ul style="list-style-type: none"> - base type: string, max length: 15, <p>(XPath: TEXSheet/TTbody/mechanicalProps/MPseamSlipWeft/@application) [Optional] (XPath: TEXSheet/TTbody/mechanicalProps/MPseamSlipWarp/@application) [Optional] (XPath: TEXSheet/TTbody/mechanicalProps/MPbreakWarp/@application) [Optional] (XPath: TEXSheet/TTbody/mechanicalProps/MPtearWeft/@application) [Optional] (XPath: TEXSheet/TTbody/mechanicalProps/MPtearWarp/@application) [Optional] (XPath: TEXSheet/TTbody/mechanicalProps/MPspray/@application) [Optional] (XPath: TEXSheet/TTbody/mechanicalProps/MPbending/@application) [Optional] (XPath: TEXSheet/TTbody/mechanicalProps/MPelastWeft/@application) [Optional] (XPath: TEXSheet/TTbody/mechanicalProps/MPpilling/@application) [Optional] (XPath: TEXSheet/TTbody/mechanicalProps/MPabrasion/@application) [Optional] (XPath: TEXSheet/TTbody/mechanicalProps/MPbreakWeft/@application) [Optional] (XPath: TEXSheet/TTbody/mechanicalProps/MPelastWarp/@application) [Optional]</p>
avgDeliveryDD	<p>average time (workdays) between order receipt and delivery of an article, specified by the Supplier</p> <ul style="list-style-type: none"> - base type: duration, <p>(XPath: TEXSheet/TTbody/generalChar/avgDeliveryDD) 0-1</p>
bowingWarp	<p>warp bowing</p> <ul style="list-style-type: none"> - base type: decimal, min inclusive: 0, <p>(XPath: TEXSheet/TTbody/construction/bowingWarp) 0-1</p>
bowingWeft	<p>weft bowing</p> <ul style="list-style-type: none"> - base type: decimal, min inclusive: 0, <p>(XPath: TEXSheet/TTbody/construction/bowingWeft) 0-1</p>
careLabel	<p>codification of the care instructions printed on the label (ISO 3758)</p> <ul style="list-style-type: none"> - base type: string, length: 5, <p>(XPath: TEXSheet/TTbody/generalChar/careLabel) 0-1</p> <p>- note: <i>code composition: 1st digit=id.symbol umid washing, 2nd=id.s.bleaching, 3rd=id.s. ironing, 4th=id.s. dry washing, 5th=id.s. drying. See ATTACHMENT B.</i></p>
CFdryClean	<p>measur of color fastness to dry cleaning</p> <ul style="list-style-type: none"> - base type: string, max length: 10, <p>(XPath: TEXSheet/TTbody/colorFastness/CFdryClean) 0-1</p> <p>- note: <i>when the test forsees two values (change-staining) the 1st value is change and the 2nd staining, devided by ";"</i></p>
CFironDry	<p>measure of color fastness to dry ironing</p> <ul style="list-style-type: none"> - base type: string, max length: 10, <p>(XPath: TEXSheet/TTbody/colorFastness/CFironDry) 0-1</p> <p>- note: <i>when the test forsees two values (change-staining) the 1st value is change and the 2nd staining, devided by ";"</i></p>
CFironWet	<p>measure of color fastness to wet ironing</p> <ul style="list-style-type: none"> - base type: string, max length: 10, <p>(XPath: TEXSheet/TTbody/colorFastness/CFironWet) 0-1</p> <p>- note: <i>when the test forsees two values (change-staining) the 1st value is change and the 2nd staining, devided by ";"</i></p>
CFlight	<p>measure of color fastness to light</p> <ul style="list-style-type: none"> - base type: string, max length: 10, <p>(XPath: TEXSheet/TTbody/colorFastness/CFlight) 0-1</p>
CFperspirAcid	<p>measure of color fastness to acid perspiration</p> <ul style="list-style-type: none"> - base type: string, max length: 10, <p>(XPath: TEXSheet/TTbody/colorFastness/CFperspirAcid) 0-1</p> <p>- note: <i>when the test forsees two values (change-staining) the 1st value is change and the 2nd staining, devided by ";"</i></p>

CFperspirAlk	<p>measure of color fastness to alkaline perspiration</p> <ul style="list-style-type: none"> - base type: string, max length: 10, (XPath: TEXSheet/TTbody/colorFastness/CFperspirAlk) 0-1 - note: <i>when the test forseees two values (change-staining) the 1st value is change and the 2nd staining, devided by ";</i>"
CFrubDry	<p>measure of color fastness to dry rubbing</p> <ul style="list-style-type: none"> - base type: string, max length: 10, (XPath: TEXSheet/TTbody/colorFastness/CFrubDry) 0-1 - note: <i>when the test forseees two values (change-staining) the 1st value is change and the 2nd staining, devided by ";</i>"
CFrubOrgSolv	<p>measure of color fastness to rubbing with organic solvents</p> <ul style="list-style-type: none"> - base type: string, max length: 10, (XPath: TEXSheet/TTbody/colorFastness/CFrubOrgSolv) 0-1 - note: <i>when the test forseees two values (change-staining) the 1st value is change and the 2nd staining, devided by ";</i>"
CFrubWet	<p>measure of color fastness to wet rubbing</p> <ul style="list-style-type: none"> - base type: string, max length: 10, (XPath: TEXSheet/TTbody/colorFastness/CFrubWet) 0-1 - note: <i>when the test forseees two values (change-staining) the 1st value is change and the 2nd staining, devided by ";</i>"
CFspotWater	<p>measure of color fastness to spotting water</p> <ul style="list-style-type: none"> - base type: string, max length: 10, (XPath: TEXSheet/TTbody/colorFastness/CFspotWater) 0-1 - note: <i>when the test forseees two values (change-staining) the 1st value is change and the 2nd staining, devided by ";</i>"
CFwash	<p>measure of color fastness to washing</p> <ul style="list-style-type: none"> - base type: string, max length: 10, (XPath: TEXSheet/TTbody/colorFastness/CFwash) 0-1 - note: <i>when the test forseees two values (change-staining) the 1st value is change and the 2nd staining, devided by ";</i>"
CFwater	<p>measure of color fastness to water</p> <ul style="list-style-type: none"> - base type: string, max length: 10, (XPath: TEXSheet/TTbody/colorFastness/CFwater) 0-1 - note: <i>when the test forseees two values (change-staining) the 1st value is change and the 2nd staining, devided by ";</i>"
CFxeno	<p>measure of color fastness to Xeno-light</p> <ul style="list-style-type: none"> - base type: string, max length: 10, (XPath: TEXSheet/TTbody/colorFastness/CFxeno) 0-1
checksFlaw	<p>flaw in checks</p> <ul style="list-style-type: none"> - base type: decimal, min inclusive: 0, (XPath: TEXSheet/TTbody/construction/checksFlaw) 0-1
city	<p>name of the city (town, village)</p> <ul style="list-style-type: none"> - base type: string, max length: 40, (XPath: TEXSheet/TTheader/buyer/city) 0-1 (XPath: TEXSheet/TTheader/supplier/city) 0-1
@codeList	<p>it specifies the URL where the list of codes used to make an instance of the element can be found</p> <ul style="list-style-type: none"> - base type: string, max length: 255, (XPath: TEXSheet/TTbody/generalChar/note/@codeList) [Optional] - nota: <i>must be used to provide (URL) the list of codes used in "noteLabel"</i> (XPath: TEXSheet/TTheader/note/@codeList) [Optional] - nota: <i>must be used to provide (URL) the list of codes used in "noteLabel"</i>
@colorType	<p>type of color to which a "color fastness" value refers</p> <ul style="list-style-type: none"> - base type: string, cod. table: NT26, (XPath: TEXSheet/TTbody/colorFastness/@colorType) [Optional]

country	code of the nation - base type: string, cod. table: T10, (XPath: TEXSheet/THeader/supplier/country) 0-1 (XPath: TEXSheet/THeader/buyer/country) 0-1
customsStat	statistic code assigned by Customs to a specified product - base type: string, max length: 15, (XPath: TEXSheet/Ttbody/generalChar/customsStat) 0-1
@dateForm	format used for a date - base type: string, cod. table: NT29, (XPath: TEXSheet/THeader/msgDate/@dateForm) [Optional]
dept	name or code of a contact department within a Party - base type: string, max length: 40, (XPath: TEXSheet/THeader/buyer/dept) 0-1 (XPath: TEXSheet/THeader/supplier/dept) 0-1
docID	identification number of the referenced document SINCE 2008-1 ITS USE IN THE HEADER IS DISCOURAGED (REPLACED BY) - base type: string, max length: 35, (XPath: TEXSheet/THeader/docID) 0-1
DSdryCleanLength	measure of dimensional stability to dry cleaning (length) - base type: string, max length: 10, (XPath: TEXSheet/Ttbody/dimensionStability/DSdryCleanLength) 0-1
DSdryCleanWidth	measure of dimensional stability to dry cleaning (width) - base type: string, max length: 10, (XPath: TEXSheet/Ttbody/dimensionStability/DSdryCleanWidth) 0-1
DSsteamLength	measure of dimensional stability to steaming press (length) - base type: string, max length: 10, (XPath: TEXSheet/Ttbody/dimensionStability/DSsteamLength) 0-1
DSsteamWidth	measure of dimensional stability to steaming press (width) - base type: string, max length: 10, (XPath: TEXSheet/Ttbody/dimensionStability/DSsteamWidth) 0-1
DSwashLength	measure of dimensional stability to washing (length) - base type: string, max length: 10, (XPath: TEXSheet/Ttbody/dimensionStability/DSwashLength) 0-1
DSwashWidth	measure of dimensional stability to washing (width) - base type: string, max length: 10, (XPath: TEXSheet/Ttbody/dimensionStability/DSwashWidth) 0-1
dyeProcess	dye process applied to the fabric - base type: string, cod. table: T15, (XPath: TEXSheet/Ttbody/generalChar/dyeProcess) 0-1
dyeStuff	dye stuff used in the fabric dye process - base type: string, cod. table: T16, (XPath: TEXSheet/Ttbody/generalChar/dyeStuff) 0-1
element	chemical element or compound relevant to the analysis of fabric or yarn - base type: string, cod. table: T49, (XPath: TEXSheet/Ttbody/ecoFeatures/qlyEcoFeatures/element) 1-1 (XPath: TEXSheet/Ttbody/ecoFeatures/qtyEcoFeatures/element) 1-1
@email	electronic mail address of the contact person within a Party - base type: string, max length: 80, (XPath: TEXSheet/THeader/supplier/person/@email) [Optional] (XPath: TEXSheet/THeader/buyer/person/@email) [Optional]
equation	sign or symbol used in a mathematical equation - base type: string, cod. table: T50,

	(XPath: TEXSheet/TTbody/ecoFeatures/qtyEcoFeatures/equation) 1-1 (XPath: TEXSheet/TTbody/ecoFeatures/qtyEcoFeatures/equation) 0-1
estFaultiness	percent faultiness of an article, estimated by the Supplier - base type: decimal, min inclusive: 0, max inclusive: 100, fraction digits: 2, (XPath: TEXSheet/TTbody/generalChar/estFaultiness) 0-1
fabricCutWidth	usable width of the fabric (for garments manufacturing) as technical specification - base type: decimal, min inclusive: 0, fraction digits: 2, (XPath: TEXSheet/TTbody/construction/fabricCutWidth) 0-1
fabricNameBuyer	name given to the fabric (article/pattern) by the Buyer - base type: string, max length: 70, (XPath: TEXSheet/TTbody/generalChar/fabricNameBuyer) 0-1
fabricNameSupplier	name given to the fabric (article/pattern) by the Supplier - base type: string, max length: 70, (XPath: TEXSheet/TTbody/generalChar/fabricNameSupplier) 1-1
fabricWeightM	weight per metre of the fabric as technical specification - base type: decimal, min inclusive: 0, fraction digits: 2, (XPath: TEXSheet/TTbody/construction/fabricWeightM) 1-1
fabricWeightM2	weight per square metre of the fabric as technical specification - base type: decimal, min inclusive: 0, fraction digits: 2, (XPath: TEXSheet/TTbody/construction/fabricWeightM2) 0-1
fabricWidth	width of the fabric as technical specification - base type: decimal, min inclusive: 0, fraction digits: 2, (XPath: TEXSheet/TTbody/construction/fabricWidth) 0-1
@fax	fax number of the contact person within a Party - base type: string, max length: 35, (XPath: TEXSheet/TTheader/buyer/person/@fax) [Optional] (XPath: TEXSheet/TTheader/supplier/person/@fax) [Optional]
@fibre	type of fibre used in a textile product - base type: string, cod. table: T19, (XPath: TEXSheet/TTbody/construction/warpCount/@fibre) [Optional] (XPath: TEXSheet/TTbody/generalChar/fabricCompos/ percCompos/@fibre) [Required] (XPath: TEXSheet/TTbody/construction/weftCount/@fibre) [Optional]
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, (XPath: TEXSheet/TTheader/supplier/id) 1-1 (XPath: TEXSheet/TTheader/buyer/id) 1-1
legalName	legal name of a Party - base type: string, max length: 80, (XPath: TEXSheet/TTheader/supplier/legalName) 0-1 (XPath: TEXSheet/TTheader/buyer/legalName) 0-1
@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, (XPath: TEXSheet/TTheader/buyer/@logo) [Optional] (XPath: TEXSheet/TTheader/supplier/@logo) [Optional]
@method	standard protocol or method employed in a test to evaluate a characteristic or a parameter - base type: string, max length: 25, (XPath: TEXSheet/TTbody/dimensionStability/DSsteamLength/@method) [Optional] [Default= DIN-53894-2]

	<p>(XPath: TEXSheet/TTbody/ecoFeatures/qtyEcoFeatures/@method) [Optional] (XPath: TEXSheet/TTbody/ecoFeatures/qtyEcoFeatures/specValue/@method) [Optional] (XPath: TEXSheet/TTbody/dimensionStability/DSsteamWidth/@method) [Optional] [Default= DIN-53894-2] (XPath: TEXSheet/TTbody/mechanicalProps/MPbending/@method) [Optional] (XPath: TEXSheet/TTbody/mechanicalProps/MPspray/@method) [Optional] (XPath: TEXSheet/TTbody/colorFastness/CFironDry/@method) [Optional] [Default= ISO-105-X11] (XPath: TEXSheet/TTbody/ecoFeatures/qlyEcoFeatures/@method) [Optional] (XPath: TEXSheet/TTbody/colorFastness/CFrubOrgSolv/@method) [Optional] [Default= ISO-105-D02] (XPath: TEXSheet/TTbody/colorFastness/CFironWet/@method) [Optional] [Default= ISO-105-X11] (XPath: TEXSheet/TTbody/colorFastness/CFxeno/@method) [Optional] (XPath: TEXSheet/TTbody/ecoFeatures/qtyEcoFeatures/specValue/@method) [Optional] (XPath: TEXSheet/TTbody/colorFastness/CFspotWater/@method) [Optional] [Default= ISO-105-E07] (XPath: TEXSheet/TTbody/mechanicalProps/MPtearWeft/@method) [Optional] (XPath: TEXSheet/TTbody/mechanicalProps/MPseamSlipWeft/@method) [Optional] [Default= NFG-7117] (XPath: TEXSheet/TTbody/mechanicalProps/MPseamSlipWarp/@method) [Optional] [Default= NFG-7117] (XPath: TEXSheet/TTbody/mechanicalProps/MPcrease/@method) [Optional] [Default= ISO-9867] (XPath: TEXSheet/TTbody/mechanicalProps/MPpilling/@method) [Optional] [Default= UNI-E-1512434] (XPath: TEXSheet/TTbody/mechanicalProps/MPabrasion/@method) [Optional] [Default= EN-12947] (XPath: TEXSheet/TTbody/mechanicalProps/MPbreakWeft/@method) [Optional] [Default= ISO-1394-1] (XPath: TEXSheet/TTbody/mechanicalProps/MPbreakWarp/@method) [Optional] [Default= ISO-1394-1] (XPath: TEXSheet/TTbody/dimensionStability/DSwashWidth/@method) [Optional] [Default= ISO-5077/6330] (XPath: TEXSheet/TTbody/mechanicalProps/MPtearWarp/@method) [Optional] (XPath: TEXSheet/TTbody/dimensionStability/DSwashLength/@method) [Optional] [Default= ISO-5077/6330] (XPath: TEXSheet/TTbody/mechanicalProps/MPelastWeft/@method) [Optional] [Default= BS 4294-68] (XPath: TEXSheet/TTbody/dimensionStability/DSdryCleanWidth/@method) [Optional] [Default= ISO-3175] (XPath: TEXSheet/TTbody/mechanicalProps/MPelastWarp/@method) [Optional] [Default= BS 4294-68] (XPath: TEXSheet/TTbody/dimensionStability/DSdryCleanLength/@method) [Optional] [Default= ISO-3175] (XPath: TEXSheet/TTbody/colorFastness/CFwater/@method) [Optional] [Default= ISO-105-E01] (XPath: TEXSheet/TTbody/colorFastness/CFlight/@method) [Optional] [Default= ISO-105-B02] (XPath: TEXSheet/TTbody/colorFastness/CFwash/@method) [Optional] [Default= ISO-105-C06] (XPath: TEXSheet/TTbody/colorFastness/CFdryClean/@method) [Optional] [Default= ISO-105-D01] (XPath: TEXSheet/TTbody/construction/warpCount/@method) [Optional] [Default= ISO-2060] (XPath: TEXSheet/TTbody/construction/bowingWarp/@method) [Optional] (XPath: TEXSheet/TTbody/construction/bowingWeft/@method) [Optional] (XPath: TEXSheet/TTbody/construction/checksFlaw/@method) [Optional] (XPath: TEXSheet/TTbody/construction/weftCount/@method) [Optional] [Default= ISO-2060] (XPath: TEXSheet/TTbody/construction/weftDev/@method) [Optional] (XPath: TEXSheet/TTbody/colorFastness/CFperspirAlk/@method) [Optional] [Default= ISO-105-E04] (XPath: TEXSheet/TTbody/colorFastness/CFrubDry/@method) [Optional] [Default=</p>
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	<p>ISO-105-X12] (XPath: TEXSheet/TTbody/colorFastness/CFrubWet/@method) [Optional] [Default=ISO-105-X12] (XPath: TEXSheet/TTbody/colorFastness/CFperspirAcid/@method) [Optional] [Default= ISO-105-E04]</p>
minLot	<p>minimum order quantity of a product requested by the Supplier - base type: decimal, min inclusive: 0, fraction digits: 2, (XPath: TEXSheet/TTbody/generalChar/minLot) 0-1</p>
minLotExclusive	<p>minimum order quantity of a product requested by the Supplier for an exclusive color - base type: decimal, min inclusive: 0, fraction digits: 2, (XPath: TEXSheet/TTbody/generalChar/minLotExclusive) 0-1</p>
MPabrasion	<p>measure of abrasion resistance - base type: string, max length: 10, (XPath: TEXSheet/TTbody/mechanicalProps/MPabrasion) 0-3 - note: <i>the data can be iterated when several measurements related to different applied forces or conditions occur.</i></p>
MPbending	<p>measure of the resistance to repeated bending - base type: string, max length: 10, (XPath: TEXSheet/TTbody/mechanicalProps/MPbending) 0-1</p>
MPbreakWarp	<p>measure of the break strength (warp) - base type: string, max length: 10, (XPath: TEXSheet/TTbody/mechanicalProps/MPbreakWarp) 0-1</p>
MPbreakWeft	<p>measure of the break strength (weft) - base type: string, max length: 10, (XPath: TEXSheet/TTbody/mechanicalProps/MPbreakWeft) 0-1</p>
MPcrease	<p>crease recovery measure of the fabric after induced wrinkling - base type: string, max length: 10, (XPath: TEXSheet/TTbody/mechanicalProps/MPcrease) 0-1</p>
MPelastWarp	<p>measure of the elasticity (warp) - base type: string, max length: 10, (XPath: TEXSheet/TTbody/mechanicalProps/MPelastWarp) 0-3</p>
MPelastWeft	<p>measure of the elasticity (weft) - base type: string, max length: 10, (XPath: TEXSheet/TTbody/mechanicalProps/MPelastWeft) 0-3</p>
MPpilling	<p>measure of pilling resistance - base type: string, max length: 10, (XPath: TEXSheet/TTbody/mechanicalProps/MPpilling) 0-3 - note: <i>the data can be iterated when several measurements related to different applied forces or conditions occur.</i></p>
MPseamSlipWarp	<p>measure of the seam slippage (warp) - base type: string, max length: 10, (XPath: TEXSheet/TTbody/mechanicalProps/MPseamSlipWarp) 0-3 - note: <i>the data can be iterated when several measurements related to different applied forces or conditions occur.</i></p>
MPseamSlipWeft	<p>measure of the seam slippage (weft) - base type: string, max length: 10, (XPath: TEXSheet/TTbody/mechanicalProps/MPseamSlipWeft) 0-3 - note: <i>the data can be iterated when several measurements related to different applied forces or conditions occur.</i></p>
MPspray	<p>spray test measure - base type: string, max length: 10, (XPath: TEXSheet/TTbody/mechanicalProps/MPspray) 0-1</p>

MPtearWarp	measure of the tear strength (warp) - base type: string, max length: 10, (XPath: TEXSheet/TTbody/mechanicalProps/MPtearWarp) 0-3
MPtearWeft	measure of the tear strength (weft) - base type: string, max length: 10, (XPath: TEXSheet/TTbody/mechanicalProps/MPtearWeft) 0-3
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, (XPath: TEXSheet/TTheader/msgDate) 1-1
@msgfunction	function performed by the present message with regards to the transmission - base type: string, cod. table: NT18, (XPath: TEXSheet/@msgfunction) [Optional] [Default= OR]
msgID	key identifier of the document in the information system of the issuing Party - base type: string, max length: 35, (XPath: TEXSheet/TTheader/msgID) 0-1
msgN	identification number given to the message (xml document) by its issuer - base type: string, max length: 35, (XPath: TEXSheet/TTheader/msgN) 1-1
note	free text or structured (computer processing) note. For note structuring use the attributes "noteLabel" and "codelist" - base type: string, max length: 350, (XPath: TEXSheet/TTbody/generalChar/note) 0-5 - note: <i>here the charges for sub-optimized quantities or for samples can be specified</i> (XPath: TEXSheet/TTheader/note) 0-5
@noteLabel	subject qualifier of a note - base type: string, max length: 35, (XPath: TEXSheet/TTbody/generalChar/note/@noteLabel) [Optional] - nota: <i>must be used to qualify the subject of the note</i> (XPath: TEXSheet/TTheader/note/@noteLabel) [Optional] - nota: <i>must be used to qualify the subject of the note</i>
@numberingOrg	code specifying the organisation who has created or owns the coding or numbering system - base type: string, cod. table: NT6, (XPath: TEXSheet/TTheader/buyer/id/@numberingOrg) [Optional] (XPath: TEXSheet/TTheader/docID/@numberingOrg) [Optional] - nota: <i>here can be specified whose document numbering is used (e.g.: Client, Supplier, ..)</i> (XPath: TEXSheet/TTbody/generalChar/note/@numberingOrg) [Optional] (XPath: TEXSheet/TTheader/note/@numberingOrg) [Optional] (XPath: TEXSheet/TTheader/supplier/id/@numberingOrg) [Optional]
percCompos	fiber rate in the product composition - base type: decimal, min inclusive: 0, max inclusive: 100, fraction digits: 2, (XPath: TEXSheet/TTbody/generalChar/fabricCompos/percCompos) 1-9
person	name of the contact person within a Party - base type: string, max length: 40, (XPath: TEXSheet/TTheader/buyer/person) 0-1 (XPath: TEXSheet/TTheader/supplier/person) 0-1
@phone	phone number of the contact person within a Party - base type: string, max length: 35, (XPath: TEXSheet/TTheader/supplier/person/@phone) [Optional] (XPath: TEXSheet/TTheader/buyer/person/@phone) [Optional]
pieceLength	length of the piece

	- base type: decimal, min inclusive: 0, fraction digits: 2, (XPath: TEXSheet/TTbody/construction/pieceLength) 0-1
postCode	code defining the postal zone - base type: string, max length: 10, (XPath: TEXSheet/TTheader/supplier/postCode) 0-1 (XPath: TEXSheet/TTheader/buyer/postCode) 0-1
resin	resin (coating) percentage in finished weight - base type: decimal, min inclusive: 0, (XPath: TEXSheet/TTbody/construction/resin) 0-1
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, (XPath: TEXSheet/TTbody/generalChar/season) 0-1
@sender	qualifier that specifies the Party issuing of the document - base type: boolean, (XPath: TEXSheet/TTheader/buyer/@sender) [Optional] - nota: <i>This attribute is mandatory when the STYLESHEET must be produced</i> (XPath: TEXSheet/TTheader/supplier/@sender) [Optional] - nota: <i>This attribute is mandatory when the STYLESHEET must be produced</i>
specValue	value requested for a characteristics or a parameter that can be measured - base type: decimal, (XPath: TEXSheet/TTbody/ecoFeatures/qtyEcoFeatures/specValue) 0-1 (XPath: TEXSheet/TTbody/ecoFeatures/qtyEcoFeatures/specValue) 1-1
street	street and building number identifying a location - base type: string, max length: 80, (XPath: TEXSheet/TTheader/supplier/street) 0-1 (XPath: TEXSheet/TTheader/buyer/street) 0-1
subCountry	short name or code of the sub-country entity - base type: string, max length: 9, (XPath: TEXSheet/TTheader/buyer/subCountry) 0-1 (XPath: TEXSheet/TTheader/supplier/subCountry) 0-1
tradeMark	name of the official trademark of a specified product - base type: string, max length: 50, (XPath: TEXSheet/TTbody/generalChar/tradeMark) 0-1
@um	specification of the unit of measure - base type: string, cod. table: NT7, (XPath: TEXSheet/TTbody/generalChar/minLot/@um) [Required] (XPath: TEXSheet/TTbody/ecoFeatures/qtyEcoFeatures/ specValue/@um) [Optional] (XPath: TEXSheet/TTbody/generalChar/minLotExclusive/@um) [Required] (XPath: TEXSheet/TTbody/ecoFeatures/qtyEcoFeatures/ specValue/@um) [Optional] (XPath: TEXSheet/TTbody/construction/fabricWidth/@um) [Optional] [Default= CMT] (XPath: TEXSheet/TTbody/construction/fabricCutWidth/@um) [Optional] [Default= CMT] (XPath: TEXSheet/TTbody/construction/pieceLength/@um) [Optional] [Default= MTR] (XPath: TEXSheet/TTbody/ecoFeatures/qtyEcoFeatures/@um) [Optional] [Default= PPM] (XPath: TEXSheet/TTbody/construction/fabricWeightM/@um) [Optional] [Default= GRM] (XPath: TEXSheet/TTbody/construction/fabricWeightM2/@um) [Optional] [Default= GRM]
useIndic	indicates if a given element is used in the specified object (fabric, yarn, ...)

	- base type: boolean, (XPath: TEXSheet/TTbody/ecoFeatures/qlyEcoFeatures/useIndic) 1-1
warpCount	measure of thinness of the warp thread - base type: string, max length: 10, (XPath: TEXSheet/TTbody/construction/warpCount) 0-9
warpEndsN	number of warp threads in 1 centimetre - base type: decimal, min inclusive: 0, fraction digits: 1, (XPath: TEXSheet/TTbody/construction/warpEndsN) 0-1
weave	type of weaving used in the manufacturing of fabric - base type: string, cod. table: T17, (XPath: TEXSheet/TTbody/construction/weave) 0-1
weftCount	measure of thinness of the weft thread - base type: string, max length: 10, (XPath: TEXSheet/TTbody/construction/weftCount) 0-9
weftDev	deviation from right angle in weft - base type: decimal, min inclusive: 0, (XPath: TEXSheet/TTbody/construction/weftDev) 0-1
weftEndsN	number of weft threads in 1 centimetre - base type: decimal, min inclusive: 0, fraction digits: 1, (XPath: TEXSheet/TTbody/construction/weftEndsN) 0-1

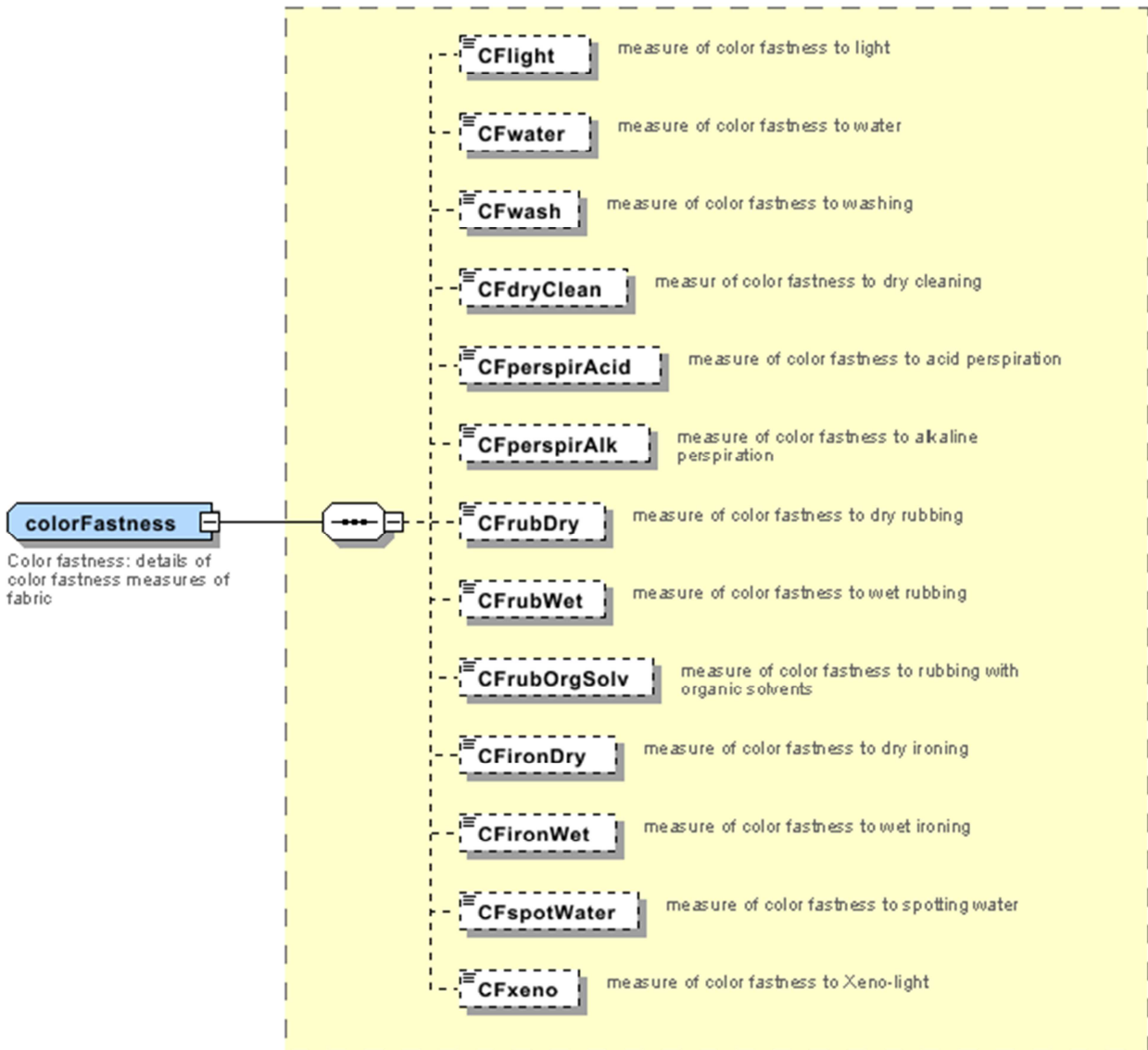
2.3 Enumeration tables

List of enumeration tables used in the XML document. You can find the corresponding codes (only for tables with less than 100 values) in the document `Decoding_Values.pdf`, available at: <http://www.moda-ml.org/moda-ml/repository/guide/v2011-1/>; moreover, all the enumeration tables are available at: <http://www.moda-ml.org/imple/show-codes.asp>.

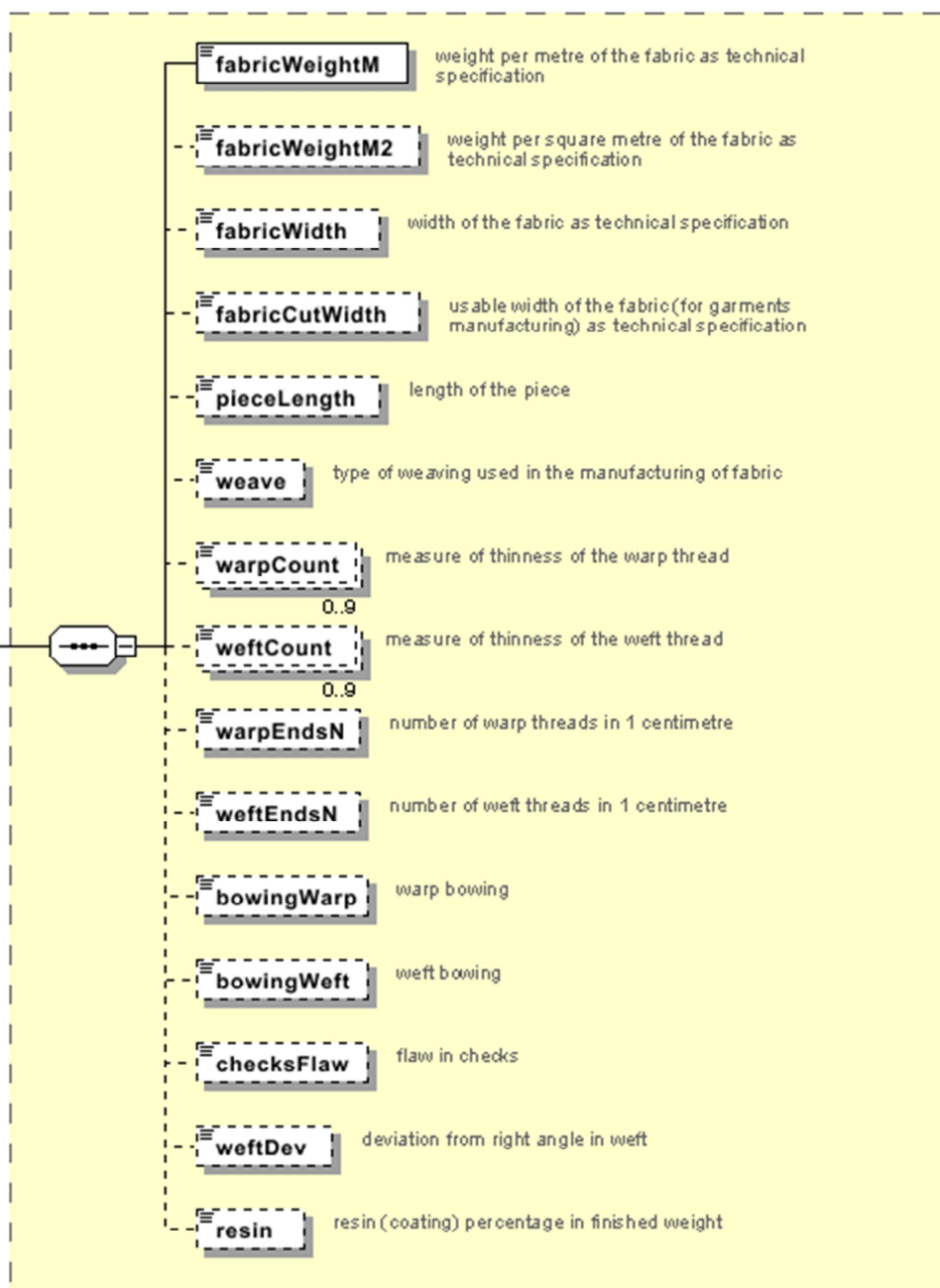
NT18 - message function
NT26 - color type
NT29 - format of a date
NT6 - Coding system owner/issuer
NT7 - Unity of measure
T10 - ISO3166 - Country
T15 - Fabric dye/print process type
T16 - Dyestuff type
T17 - Weave type
T19 - fibre type
T49 - chemical elements
T50 - equation sign

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

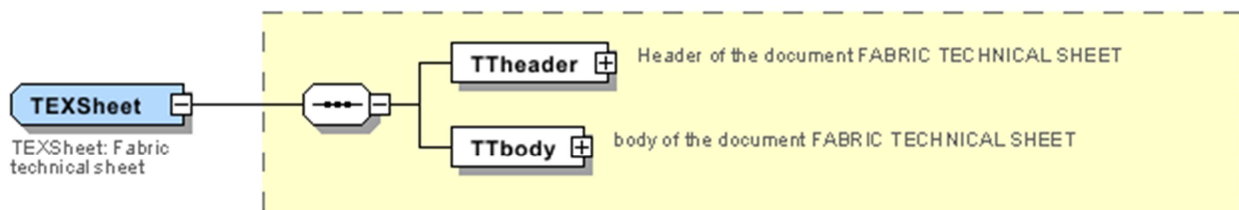
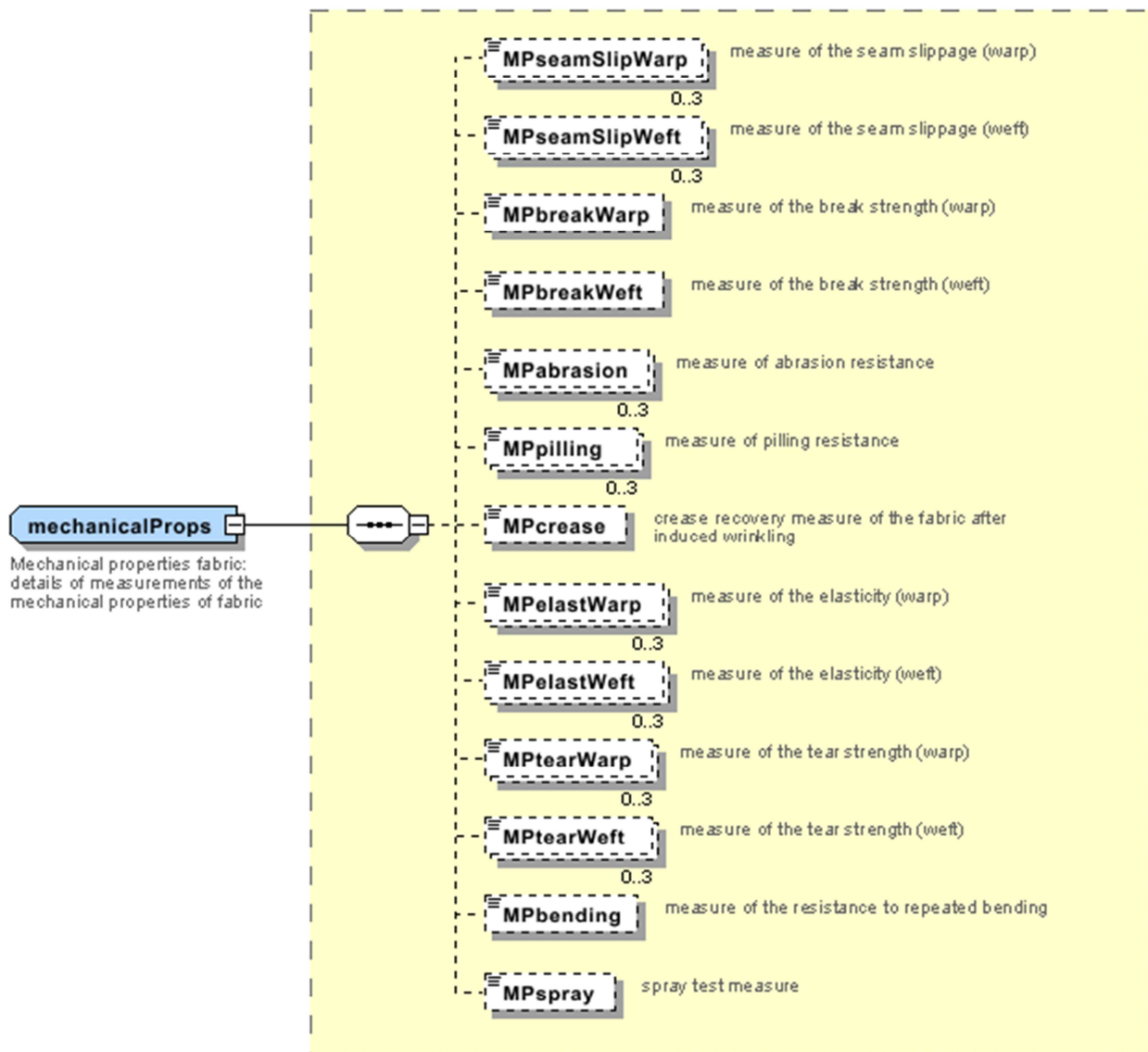
- DSsteamLength** measure of dimensional stability to steaming press (length)
- DSsteamWidth** measure of dimensional stability to steaming press (width)
- DSwashLength** measure of dimensional stability to washing (length)
- DSwashWidth** measure of dimensional stability to washing (width)
- DSdryCleanLength** measure of dimensional stability to dry cleaning (length)
- DSdryCleanWidth** measure of dimensional stability to dry cleaning (width)

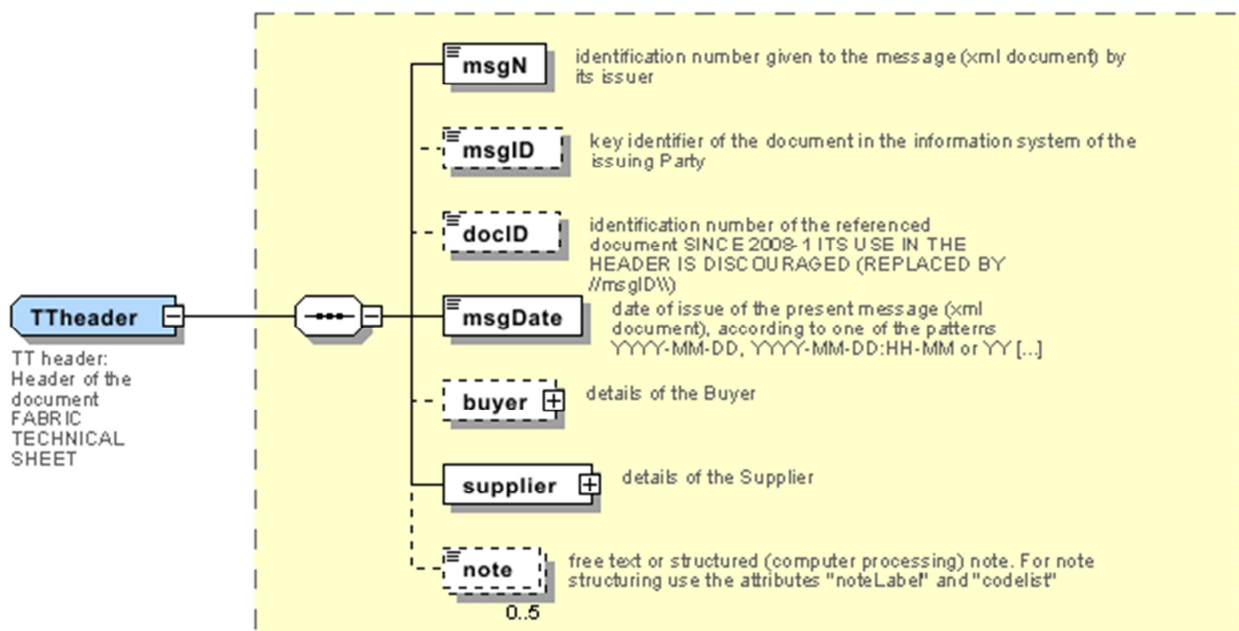
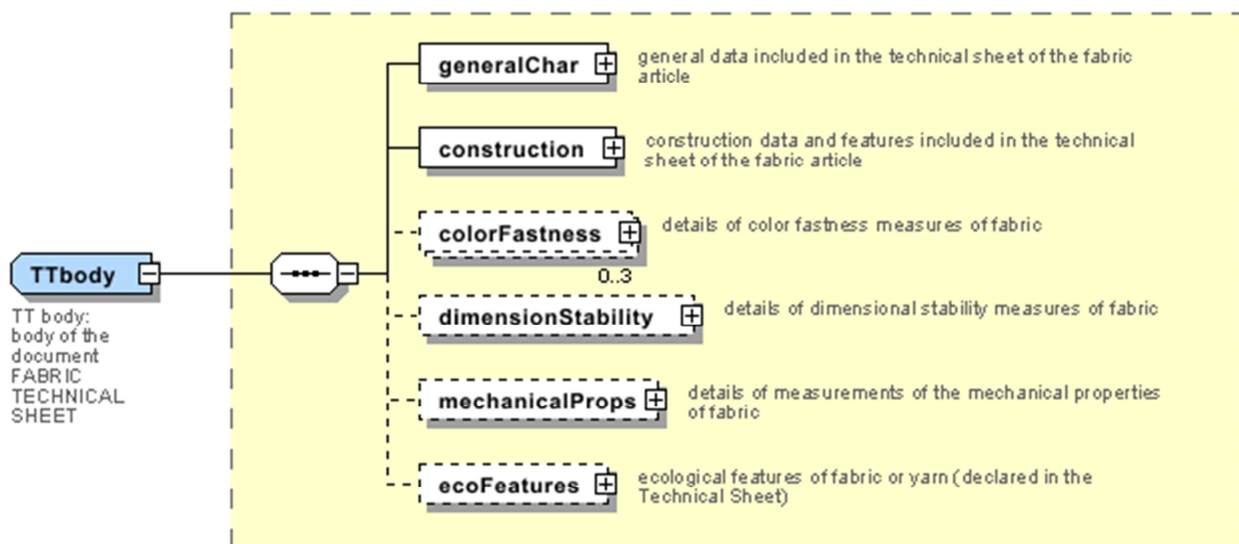
generalChar

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

- fabricNameSupplier** name given to the fabric (article/pattern) by the Supplier
- fabricNameBuyer** name given to the fabric (article/pattern) by the Buyer
- 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 mo [...]
- tradeMark** name of the official trademark of a specified product
- customsStat** statistic code assigned by Customs to a specified product
- fabricCompos** composition of the fabric according to the Directory 97/37/CE
- dyeProcess** dye process applied to the fabric
- dyeStuff** dye stuff used in the fabric dye process
- careLabel** codification of the care instructions printed on the label (ISO 3758)
- minLot** minimum order quantity of a product requested by the Supplier
- minLotExclusive** minimum order quantity of a product requested by the Supplier for an exclusive color
- avgDeliveryDD** average time (workdays) between order receipt and delivery of an article, specified by the Supplier
- estFaultiness** percent faultiness of an article, estimated by the Supplier
- note** free text or structured (computer processing) note. For note structuring use the attributes "noteLabel" and "codelist"

0.5





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