

SMART Label innovaties



Prepared for:

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Consultant in innovatieve verpakking en label oplossingen voor Healthcare en Agro-Chemie

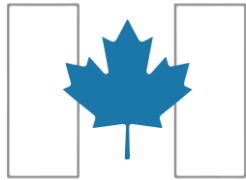
Eindhoven Area, Netherlands | Packaging and Containers

Current CCL Label

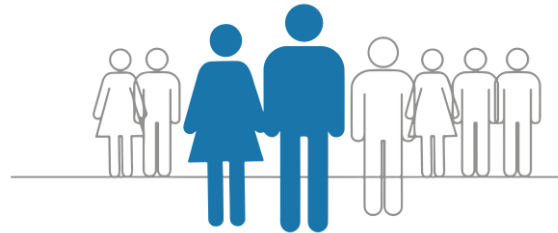
Previous CCL Label, Effort Management, Lecturis

Education Fontys Hogescholen

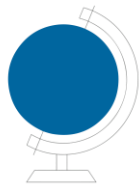
CCL Industries Today



CCL
Industries Inc.
Toronto, Canada



Over **13,000**
employees worldwide



“You can find us in
31 countries on 6 continents.”

“We own no less than
113 production facilities.”

“We are worldwide number



in

...
Pressure
Sensitive
Labels



in

Stretch
Sleeves



in

Shrink
Sleeves

... and our turn over is ...”

**>\$3
billion**

CCL is the only label company
worldwide with our scale, geographic
reach and market breadth.
Our entrepreneurial values remain
intact: **reinvent continuously** and
never accept the status quo.

Email: CS Forum
17 feb 2016

===== DESCRIPTION =====

The label specialist ensures the delivery of high quality labels to the Clinical Supply Chain within the agreed upon timelines.

The Label Specialist develops and drives the optimization, harmonization and further alignment of all label processes and systems.

Johnson & Johnson companies are equal opportunity employers.
Label Specialist (temporary position) - 1500070812W

***** DESCRIPTION *****

The label specialist ensures the delivery of high quality labels to the Clinical Supply Chain within the agreed upon timelines.
The Label Specialist develops and drives the optimization, harmonization and further alignment of all label processes and systems.

- Creates labels in NGENCODAC and GLD and ensures that labelling complies with source documentation, local requirements and technical specifications.
- Reviews Lexicon, MEL, labels and booklets against documentation to ensure accuracy and compliance.
- Responsible to manage all labels (production + submission labels) for a specific compound in close collaboration with responsible BD&LC. Confers with LMCs (OCo & Quintiles), Design Leads, Trial Supply Managers throughout label creation to keep them informed of status of job, to solicit and resolve inquiries and complaints, to obtain approval of artwork and to procure information needed to process the order.
- Acting as an expert in the Technical Team on label requirements. Influence the team in taking decisions in compliance with label regulations.
- Escalates to Team lead in case of requests for deviations or non-agreement.]
- Develops a workload planning driven by constant changes in priority. Closely follow-up on supply plan milestones to guarantee timely availability of labels.
- Closely follows up on submission timelines in consultation with Design Lead and/or Team lead.
- Maintains a detailed knowledge of clinical label requirements, end-to-end label processes and OMP.
- Responsible for vendor management (external booklet/label creation and printing process).
- Participate actively in global initiatives to optimize processes in line with the Process Excellence Methodology.
- Trains the international user community (LMCs, Design Leads, Trial Supply Managers,...) in NGENCODAC and label workflows (including front end and back end flows).
- Acts as an application administrator for NGENCODAC.
- Confers with LMCs on new or updated country specific requirements, agrees together with label process owner on implementation and impact analysis (studies and systems) .
- Coordinates and organises internationally the NGENCODAC Help Desk for all internal and external customers related the label workflow
- Tests and implements, when appropriate, new technologies related to Labels. Manages all label system control/validation activities (follow up,

proof of the
label
data is
not
correct
proof,
then
this file
is not
reliable
signature.)

testing and documenting)

- Constantly strives for optimization and harmonization of methodology, guidelines, processes and documentation globally (procedures, guidelines, work instructions, etc) related to the end to end label process.

===== QUALIFICATIONS =====

:

- Minimum of bachelor or equivalent through experience (generally requires 3-5 years labelling related experience)
- Knowledge of GMP and Good Documentation Practices
- Experience within a clinical packaging unit is an asset
- Knowledge of Graphic and Printing processes is an asset
- Experience in process and system optimization/validation is an asset
- Process Excellence knowledge
- Knowledge of Office applications (MS Word, MS Excel, MS PowerPoint) and Acrobat
- Fluent in English
- Result and performance driven
- Ability to work in cross cultural environment and multi-disciplinary teams
- Ability to take initiative and to work independently
- Workflow/Process oriented
- Quality and solution mindset
- Strong organizational skills
- Influencing and negotiating skills

Deze vacature is tot 01/01 exclusief voorbehouden voor medewerkers wiens functie wegvalt door een organisatorische wijziging. Deze kandidaten worden met voorrang in hetzelfde proces opgenomen. De screening van andere kandidaten zal pas na deze periode gebeuren

Primary Location
: Europe-Middle East/Africa-Belgium-Antwerp-Beeze

Organization
: Janssen Pharmaceutica N.V. (7555)

Job Function/Sub Function
: Administration

Recruiter
: Pieter Smans

Pay Grade: No Grade

GERICHT OP INHOUD E

GERICHT OP INHOUD EN PROCES

Properties

GERICHT OP FUNKTIONALITEIT

 **Durability**
Coatings that provide image protection, light fastness and chemical and abrasion resistance

 **Anti-counterfeit**
Authentication and brand protection that makes products hard to copy

 **Optical clarity**
Transparent adhesives and coatings for clearer lenses and screens

 **Shatter-proofing**
Anti-shatter and anti-splinter films that make touch screens more rugged

 **Acoustic enhancement**
Precision meshes and adhesives for optimum speaker sound

 **Insulation**
Films that bring dielectric properties to electronic devices

 **Brand awareness**

 **Beautiful aesthetics**
Attractive and original decoration for functional parts

 **Flame retardancy**
Coatings and materials that improve the safety credentials of electronic devices

 **Anti-reflection**
Light filter coatings for screens and camera lenses

 **Surface protection**
Ultra removable, optically clear adhesives that protect lenses, screens and surfaces

 **Heat dissipation**
Materials that remove heat from hot spots on electronic components

 **Identification**
Identification labels for a wide range of applications

 **Shock**
Internal cushioning from impact

 **Green**
Coatings and labels with environmental credentials

 **Anti-fingerprint**
Easy to clean, transparent panels and products

 **Weight**
Smaller, lighter materials for miniaturisation possibilities

 **Electrical shielding**
Shielding and grounding for safety credentials

 **Adhesive**
Labels with a specific adhesion from easy to peel to permanent

Industriële uitdagingen

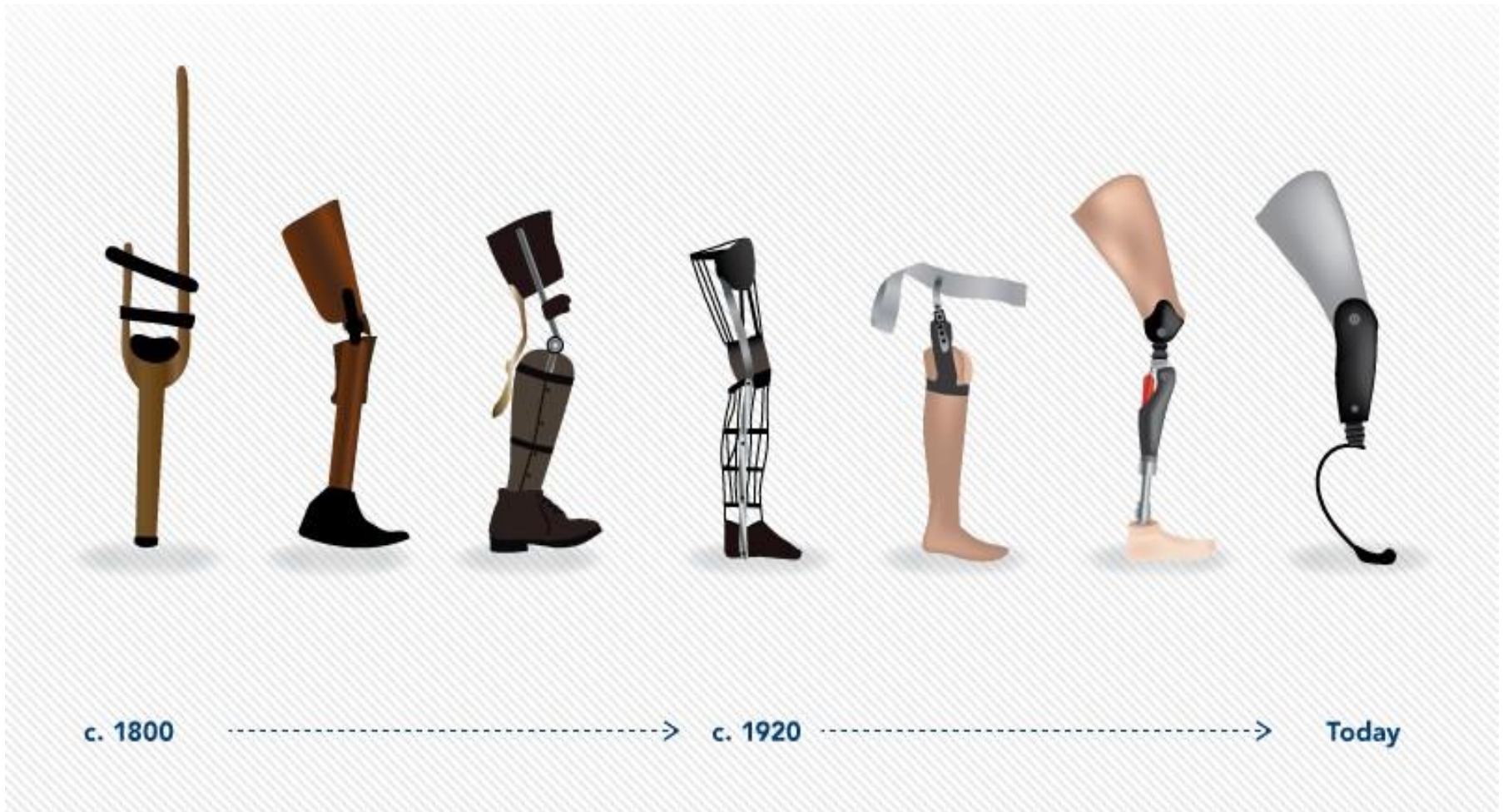


Industriële uitdaging



1. Doorlooptijden verkorten
2. Het aantal SKU's nemen toe terwijl de productie runs per SKU dalen
3. Continu blijven voldoen aan wet en regelgeving
4. Verminderen van werkkapitaal en voorraad
5. Beheer toenemende hoeveelheid informatie die op een label verpakking wordt geplaatst.
6. Serializatie en plaatsen van variabele data op een verpakking.
7. Beveiligen en beschermen van het product.
8. Tracking & tracing van product in de supply chain.
9. Communicatie met eindgebruiker
10. Maatschappelijk ondernemen (Waste reduction, Groen produceren)

Product innovatie



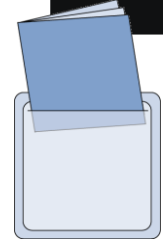
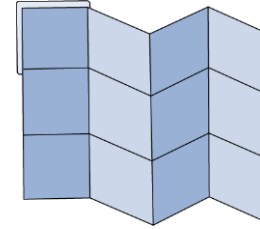
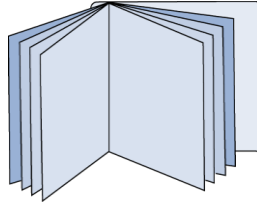
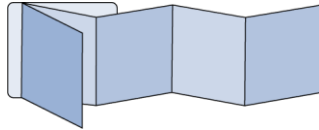
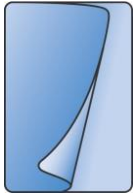
Produkt overzicht



- Pressure Sensitive Labels
- Expanded Content Labels (ECL)
- Booklets en bijsluiters
- Digital vouw karton
- Brand Protection
- Cold Chain Solutions
- Specialty Solutions
- Smart Packaging
- Krimp folies
- Flexible Packaging



Expanded Content Labels



Multi-Ply Constructions

Slim profile with 3-5 printing surfaces

Glued spine or clean peel option

Easy to reseal

Effective construction for products that require only a few pages

Leaflet ECL

Perfect for promotional and multilingual products

Effective construction for products that require only a few pages

Multiple configuration options

Booklet ECL

Glued or stitched

Traditional book-style construction for easy read & reseal

Easily incorporates regulatory info, large charts & illustrations

Some pages may be perforated for easy removal

Map Fold ECL

Easily incorporates large charts and detailed product illustrations

Effective construction for map-style reading

Folds both vertically and horizontally

Encapsulated ECL

Effective solution when weather, extra durability or security are priority

May use any ECL book construction inside pouch

Provides premium protection with durable pouch

Product Innovaties



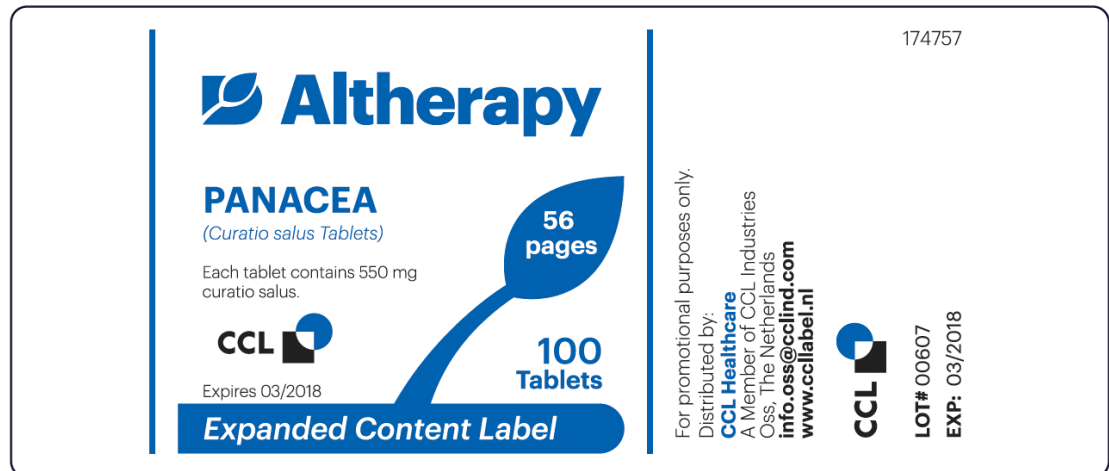
- Meer tekst op het label? Meer pagina's
- Dunnere en Lichtere materialen
- FSC materialen
- Security and Tamper evident.

ECL van **56 pagina's** gedrukt op 40/45 grams gestreken papier. **Voordelen**

- Dunner en flexibeler boekje.
- Meer etiket op rol.
- Minder rolwissels tijdens etikettering
- Minder gewicht
- "groene productie"

nadelen

drukken en vouwen is complexer.

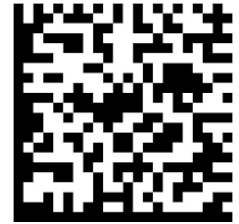


Variable Content



Serialization: Unique number and / or barcode by label and folding carton:

- Track & Trace (GS1) ('Pre-serialized')
- Diagnose / Deter diversion (re-importation)
- Diagnose / Deter counterfeiting (good or fake?)

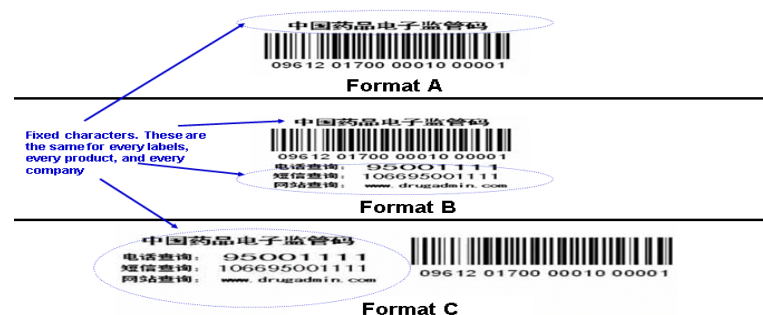


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00000000000006

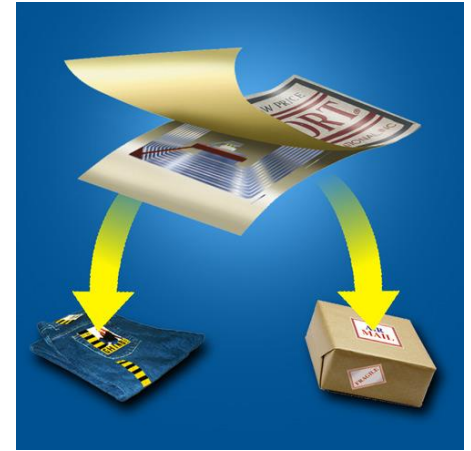
Lot & Date Coding: With JIT production, we can print the lot and date code for a specific production run



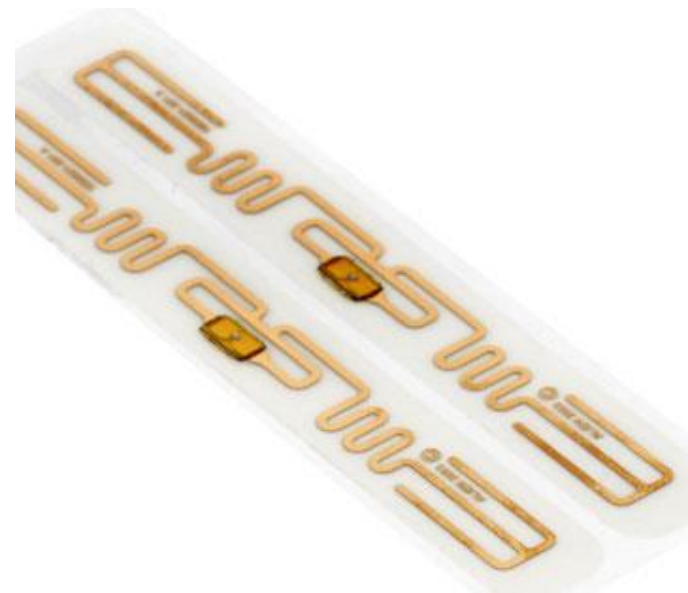
Electronic Label solutions



- Serialization & Track & Trace
- Temperature monitoring
- Patient Loyalty
- Information gathering



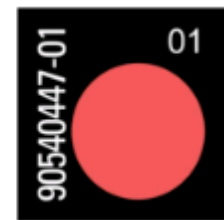
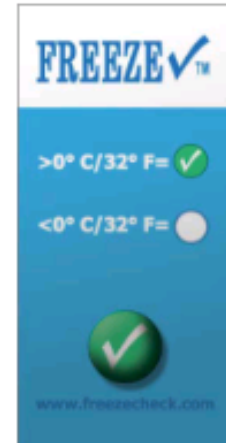
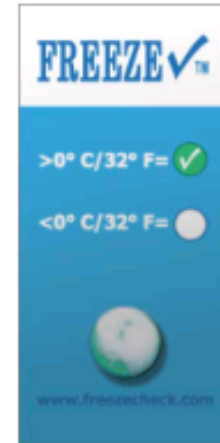
- Printing of electronic circuits
- Printing of RFID
- Printing of e-inks



temperature monitoring



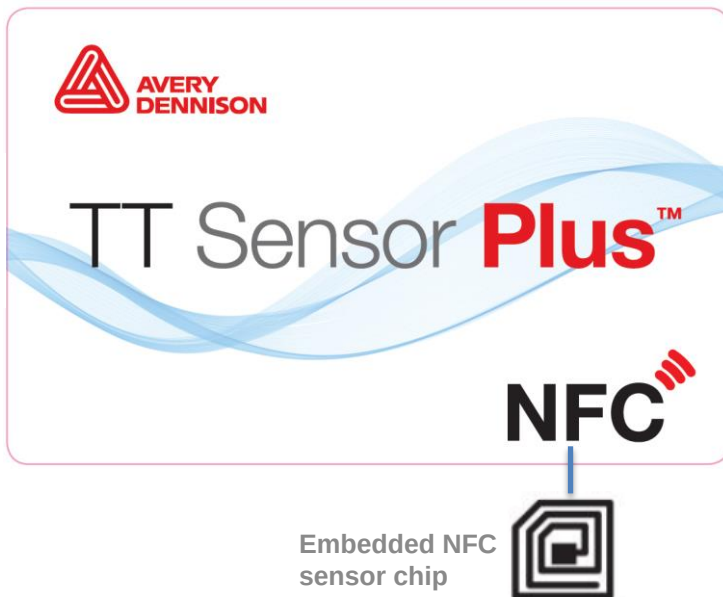
- irreversible color change
- ascending and decending
- accuracies $\pm 1^{\circ}\text{C}$ - $\pm 2^{\circ}\text{C}$
- dual indicator to verify both high and low thresholds on one label



TT Sensor Plus™



Time Temperature Data Logger



NFC devices can communicate with the embedded chip and upload data

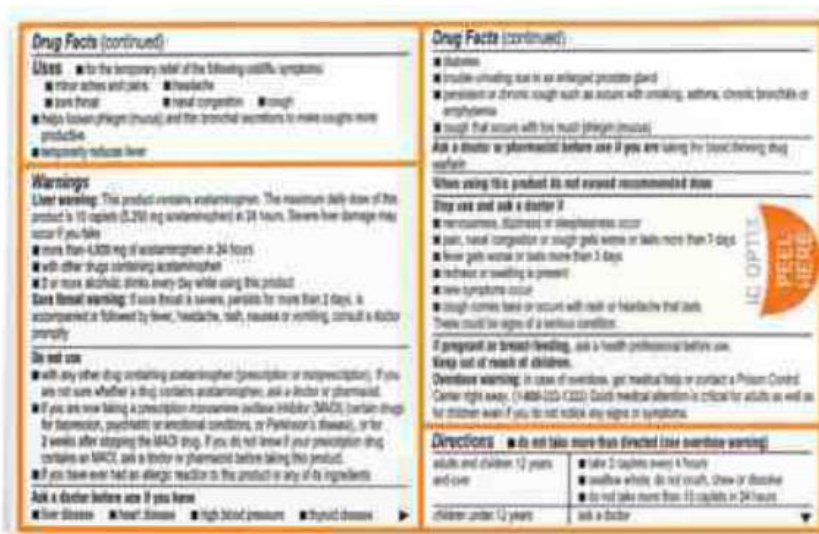
Supply chain users can view the data on database



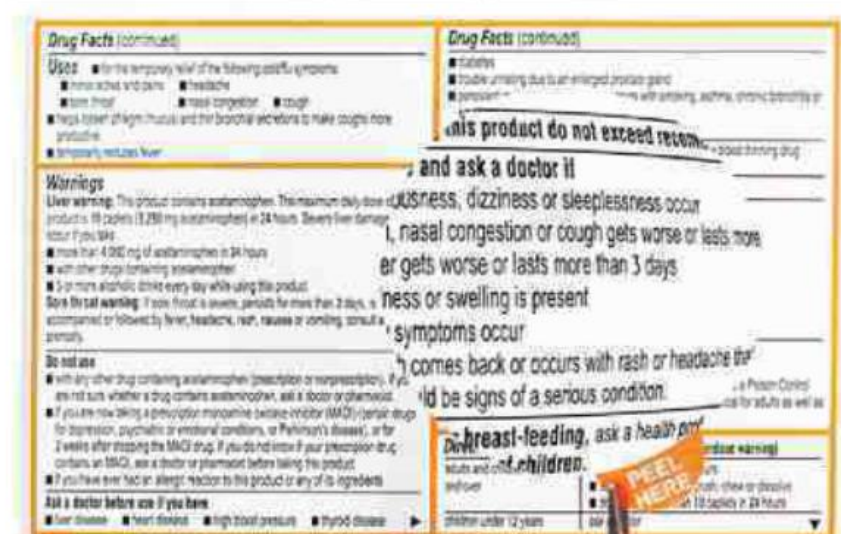
Magnification Label



Transparent magnifier label in action



Before peeling and lifting lens



After peeling and lifting lens

Tamper Evident seal

Designed for tamper-evidence and traceability:

PHARMACLEAR PP SEAL - RP 62 EU



Destructible label face –
visibly stretches on removal

Tamper-evident label materials for
visible cardboard tear on tampered packs

RP 62 EU adhesive: secure label integration
on varnished drug cartons

Transparent labels blend easily with
existing package designs and branding

Prevents label re-use for maximum
product safety and brand protection

Compliance to EU Falsified Medicines Directive
– supply chain secured

Meer uitdagingen in Farma



Labelen op kleine diameters

labels voor lage en hoge temperaturen

automatische Detectie van labels



Challenges in pharma

LABELING SMALL-DIAMETER

PP/ PE CONTAINERS

(tested on 12 mm tubes, without overlap)

Non sterile, gamma, autoclave, migration safe, clear on clear luminescent paper, PP, MDO

GLASS CONTAINERS

(tested on 12 mm tubes, without overlap)

Non-sterile, Autoclave (121°C for 20 mins.)
Clear-on-clear, Luminescent, low migration
paper, PP, PE, PET, MDO

CCL



Challenges in pharma



LABELING CRYO CONTAINERS

Liquid nitrogen (-196°C)

Gas phase ($<-180^{\circ}\text{C}$)

MDO material

(tested on 12 mm tubes, without overlap)



CONTAINERS STORED AT -80°C

Application on PP, PE and glass

MDO material

(tested on 12 mm tubes, without overlap)



Packaging Innovation Team 'the PIT Crew'



PIT Crew innovation: Flonase

- Flonase OTC nasal spray mechanism is packaged in a clear clamshell
- Three separate printed packaging components were required.
- A fully pre-assembled inlay card containing a branded cover shown through the clamshell,

(A) Blister packagin Flonase

(B) detachable Quick Start Guide,

(C) detachable Question & Answer Book,

(D) and two anti-theft tags. See photos.

The pre-assembled kit is delivered under a single catalog number.



(A)



(B)



(C)



(D)



- | | | |
|---|-----------------|--|
|  | PX100003066-103 | |
|---|-----------------|--|

SP0966 EudraCT-Nr.: 2012.00.1446-18 Lacosamid 50 mg, 70 Tabletten Wie angewiesen oral einzunehmen I. Ch.-B. II. Verwendbar bis:	3 HR
III. MED-ID: V: Besch-N VII: Prüfart VIII: Nehmer	4 FR
Zur klinische Nicht über 2 oder einfließen Alle leeren, i	I. Nr. des II. Titel des
III: IC V: NF VII: N VIII: F	I. Nr. des II. Titel des
Sponsor: zu Corporate D Auftragsfor Associates C Mannheim, I	I. Nr. des II. Titel des
SP0966 Lacosamid 50 mg, 70 comprimés Pour administration par voie orale I. N° de II. Titre de	5 HR
SP0966 Lacosamid 50 mg, 70 tabletta Száján át kell bevenni, az utasításoknak megfelelően I. Gyártásidő: II. Lejárati idő:	I. Gyógyszerazonosító IV. Vízigátlás személy azonosító sz V. Vízigátlás dátuma
Rappi et inu ICS I Ralek	VI. Kísérleti neve VIII. Végleges be db tabletta esetén az utasításnak megfelelően Csak klinikai vizsgálat céljára használati hely Legfeljebb 25 °C - tárolandó. Hűtőszekrénybe vagy fagyaszobába ne tegyél Gyermekektől távol tartandó Juttasson vissza minden leres, részlegesen felhasznál vagy használatlan terméket A vizsgálat helyi azonosító sz UCB BIOSCIENCES INC., 8010 Arrow Corporate Drive, Raleigh, NC 27617, Egyesült Államok

PIT Crew innovation: Peel-off +Lot+EXP:



- 70 million labels per year.
- 2600 orderlines per year
- Batch variance 1.000 – 300.000
- Artworks: 250
- Delivery: 24 hours
- Data delivery per xml-file
- Automatic Job ticket generation
- Automatic digital print production
- Camera controled production

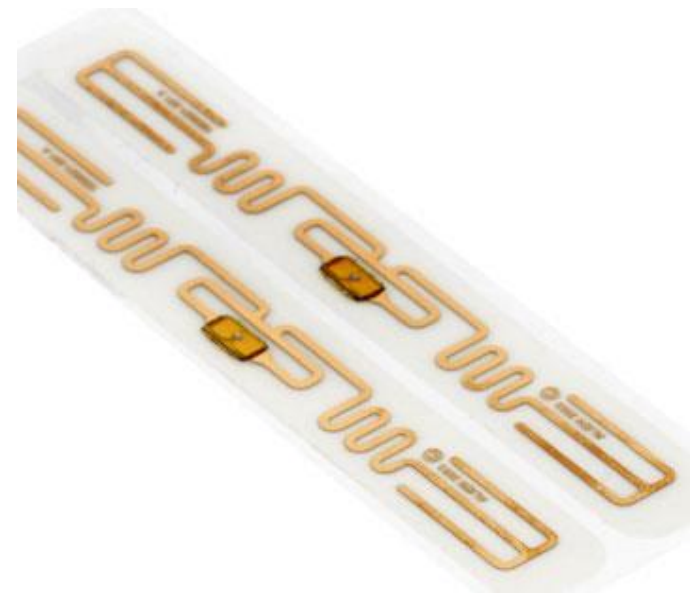
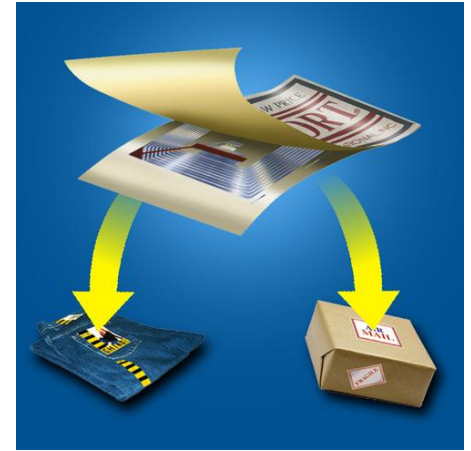


Electronic Label solutions Toepasbare oplossingen?



Flexible electronics

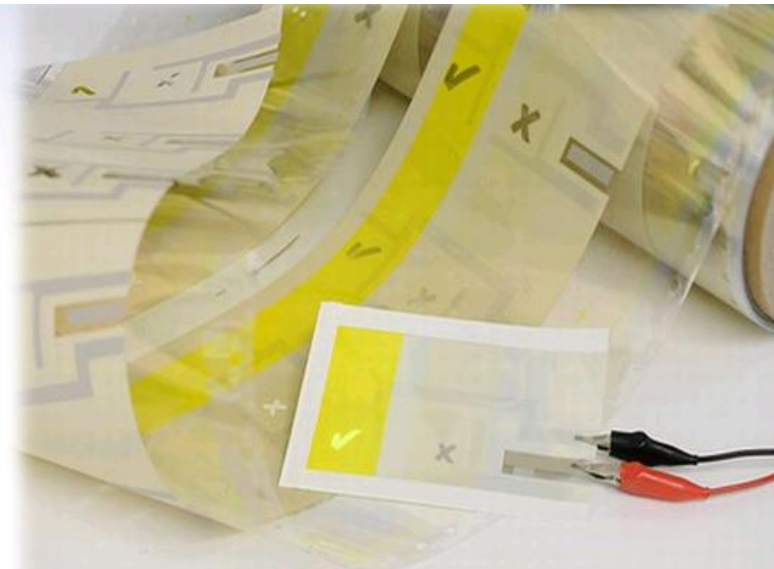
- Printing of electronic circuits
- Printing of RFID
- E-inks, E-paper, E-labels
- E-skin
- LCD or OLED
- Flexible electronics



Electronic Label solutions Toepasbare oplossingen?



LCD or OLED



Rol naar Rol productie



Thank you for your attention!

More information on: www.ccllabel.nl

Or contact your Area Sales:

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Email: jvdhoeven@cclind.com