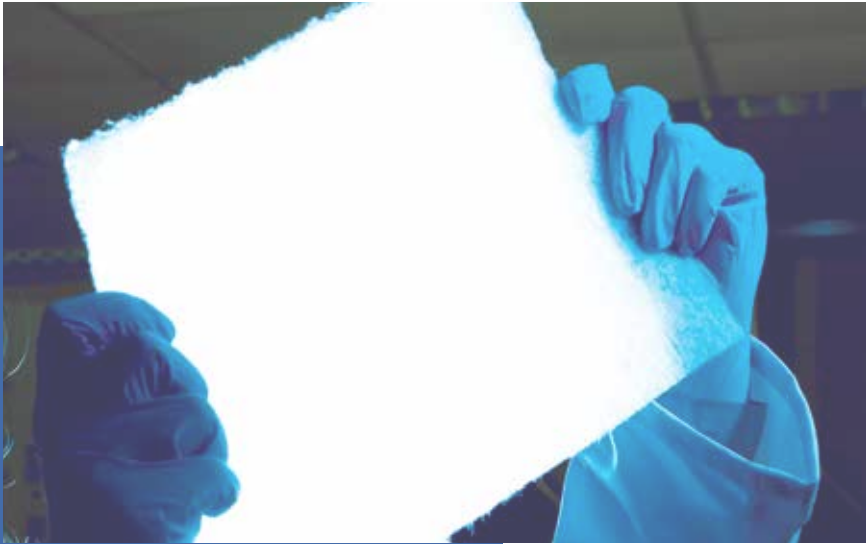




**INDORAMA**  
VENTURES  
WELLMAN INTERNATIONAL LTD

# HYGIENE & HEALTH FIBRES



## Ever Evolving Fibre Science

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Across polymers, across technologies and across borders, for over four decades Wellman International has supported the needs of the European and Global Nonwovens Market Place.

# Partnering solutions for Hygiene & Healthcare Applications.

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Wellman International prides itself on the comprehensive range of Hygiene & Health fibres which it offers to the market. This advanced fibre range has been developed through extensive testing and evaluation with our Industry Partners, encompassing innovation, quality and versatility while stringently adhering to the exacting standards which the Hygiene and Healthcare Industry demands.

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## **Babycare**

SOFT AND STRONG FIBRES FOR DIAPER STRUCTURES,  
ENSURING LONG LASTING LIQUID CONTROL AND BABY DRYNESS

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## **Adult Incontinence**

ENHANCED LIQUID ACQUISITION FIBRES  
FOR HIGH CAPACITY DEMANDS

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## **Femcare**

FLUID MANAGEMENT FIBRES FOR NONWOVENS,  
IMPROVING PERFORMANCE AND FLEXIBILITY

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## **Skin Health**

A SUPER SOFT FIBRE RANGE, GENTLE TO THE TOUCH  
AND SUITABLE FOR SKIN CONTACT APPLICATIONS

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## **Spunlace**

BROAD RANGE OF DECITEX AND PROFILE FIBRE  
TYPES FOR SPUNLACE APPLICATIONS



# Sustainability is at the core of what we do

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Nothing comes more naturally to  
Wellman International than sustainability.



## 2.66 Billion

bottles recycled in one year



## 892,967

Barrels of oil saved



## 198 Million Kgs

of CO2 Saved



## 0.95kg

CO2 emissions per kg of  
rPET, 4 times lower than  
virgin PET fibre.

# Our story so far

The history of Wellman International is immersed in quality fibre production.



**153 people**

Employed when Wellman opens in Co. Cavan, Ireland

**1972**



Continued expansion with installation of 3rd spinning unit and engineering workshop

**1979**



Wellman achieves the Quality Management Standard - ISO 9001

**1988**

**1975**

2nd spinning and finishing units installed as capacity increases



**1985**

Installed 3rd finishing unit and a new Raw Material drying system for spinning



**1990**

Wellman acquire Recycling Facilities in France and The Netherlands





## Create & Innovate

Change is certain and experience invaluable. A successful combination of both is powerful in bringing solid solutions. Four decades on - positive change is second nature to Wellman.



## Power of Our People

We are the sum of our parts and in Wellman our most valuable asset is our people. From our Production Technicians to our Sales Team - the dedication and commitment to quality and service to our customers is paramount.



## Our World

As the original pioneer of turning waste material into a 'resource' that can be used many times, Wellman understands that our world and her people are precious - without compromising on quality our ethos remains in relation to producing fibres. 'performs now, protects the future'



Introduction of 1st automated baling system

**1992**



Expanded to **85,000 T** capacity

**2004**



Acquired by Indorama Ventures PCL

**2011**

**1995**

Expansion of bicomponent spinning facility



**2009**

Independent Life Cycle Analysis of Fibre making process undertaken



**2017**

Wellman expands into Healthcare sector





**INDORAMA**  
VENTURES  
WELLMAN INTERNATIONAL LTD.



# Our Global Structure

Wellman International is a wholly owned subsidiary of Indorama Ventures PCL. All Wellman employees are proud to align themselves with and to embrace the Vision, Mission and Values of our parent company.



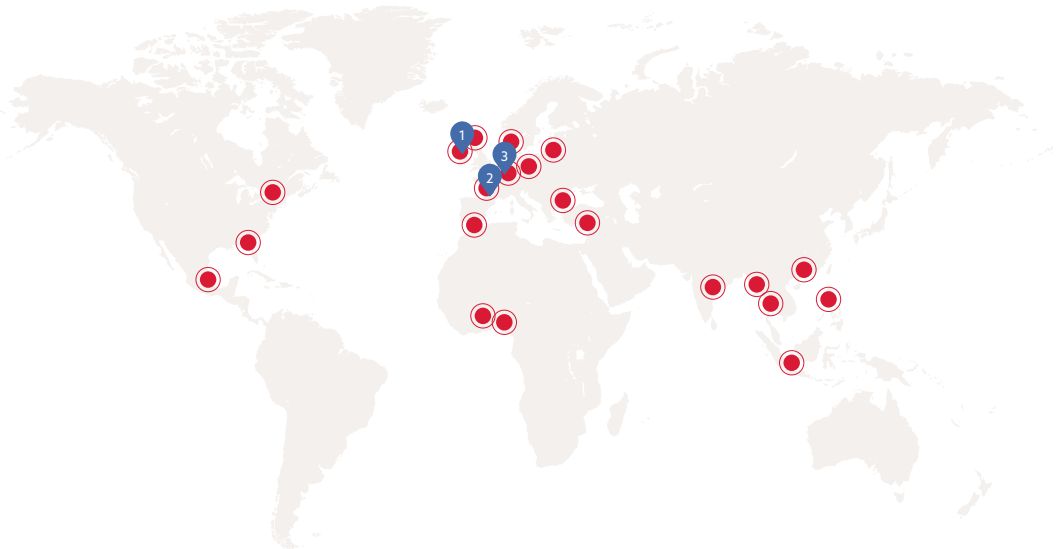
Wellman International  
Cavan, Ireland  
**FIBRE PRODUCTION**



Wellman International  
Verdun France  
**FLAKE PROCESSING**



Wellman International  
Spijk, The Netherlands  
**FLAKE PROCESSING**



# fillwell HY

CORE RANGE OF FIBRES WITH  
A PROVEN RECORD IN HIGH SPEED  
CARDING AND LIQUID MANAGEMENT

- ✓ Range of fibres for coverage and higher decitex for structure
- ✓ Durable and reliable quality fibres
- ✓ Proven performance





### Key features

- Optimum cardability
- Extensive decitex range
- Adaptable crimp shape
- Antimony free option available
- Environmentally sustainable fibre



### Specifications

SPECIFICATION	RANGE
DECITEX	3.3 - 17
CUT LENGTH (mm)	38 - 60
CRIMP (CPI)	8 - 12
FINISH	HYDROPHILIC
CROSS SECTION	SOLID
COLOUR	OPTIONS AVAILABLE

# softflex HY

ENHANCED LIQUID ACQUISITION  
FIBRES FOR HIGH CAPACITY DEMANDS



Creates exceptional  
loft at lightweights



Recovers quickly after  
pressure release





### Key features

- High bulk fibre
- Three-dimensional crimp
- Excellent resilience
- Designed for carding
- Antimony free option available
- Environmentally sustainable fibre



### Specifications

SPECIFICATION	RANGE
DECITEX	7 - 15
CUT LENGTH (mm)	38 - 60
CRIMP (CPI)	6 - 8
FINISH	HYDROPHILIC
CROSS SECTION	HOLLOW CONJUGATE
COLOUR	WHITE

# profile HY

FLUID MANAGEMENT FIBRES  
FOR NONWOVENS, IMPROVING  
PERFORMANCE AND FLEXIBILITY



Unique fibre to fibre  
contact and orientation



Improved liquid management





### Key features

- Novel Spatial Arrangements
- Enhanced Surface Area
- Maximised Lobe Dimensions
- Hydrophilic Properties
- Antimony free option available
- Environmentally Sustainable Fibre



### Specifications

SPECIFICATION	RANGE
DECITEX	3.3 - 12
CUT LENGTH (mm)	38 - 60
CRIMP (CPI)	8 - 10
FINISH	HYDROPHILIC
CROSS SECTION	HOLLOW TRILOBAL
COLOUR	WHITE

# wellbond HY

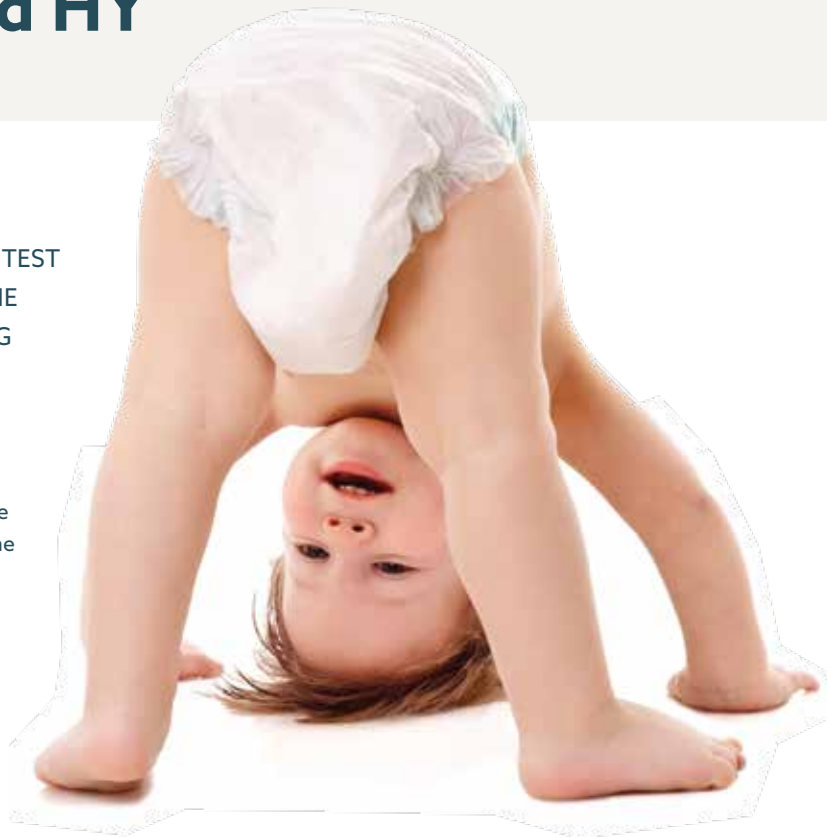
COMBINING THE LIGHTEST  
NONWOVEN WITH THE  
STRONGEST BONDING



Strong but flexible  
bonding within the  
fibre matrix



Efficient Melt  
flow properties







### Key features

- Low melting polyester
- High strength bond points
- Product support and structure ensures optimum liquid management
- Antimony free option available
- Environmentally sustainable fibre



### Specifications

SPECIFICATION	RANGE
DECITEX	4.8 - 10
CUT LENGTH (mm)	55
CRIMP (CPI)	8 - 9
FINISH	HYDROPHILIC
CROSS SECTION	BICO COPET/PET
COLOUR	WHITE

# touch HY

SOFT AND STRONG FIBRE RANGE  
WHICH ARE GENTLE TO THE TOUCH



Supersoft, gentle fibre  
range for sensitive  
skin types



Fibres which offer both  
strength and flexibility in  
skin contact applications





### Key features

- Supersoft Fillaments
- Strong and flexible fibre
- Gentle on sensitive skin
- Antimony free option available
- Environmentally sustainable fibre



### Specifications

SPECIFICATION	RANGE
DECITEX	1.7 - 6.7
CUT LENGTH (mm)	38 - 60
CRIMP (CPI)	8 - 12
FINISH	HYDROPHILIC
CROSS SECTION	REGULAR
COLOUR	WHITE



Wellman International Ltd.  
Mullagh, Kells Co. Meath  
A82 NN93  
Republic of Ireland

Tel. 00353 46 92 80200  
Fax. 00353 46 92 80226

[www.wellman-intl.com](http://www.wellman-intl.com)