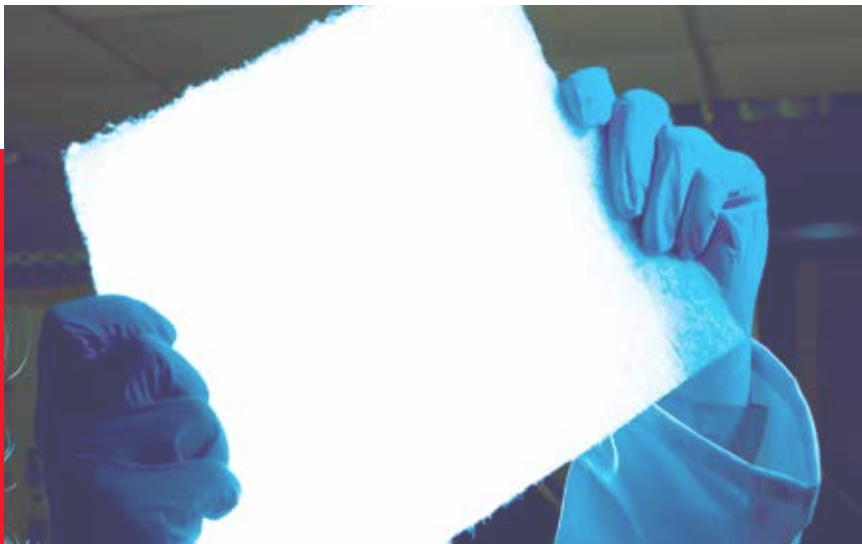


TECHNICAL FIBRES

INDORAMA
VENTURES
WELLMAN INTERNATIONAL LTD



Ever Evolving Fibre Science

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.

Engineering Fibre Excellence.

Strong exposure to the nonwovens sector for over four decades has equipped Wellman with the advantage of understanding the technical nonwovens market thoroughly. We believe that there is always a solution and thrive on the challenge of working in conjunction with the customer to minimise limitations.

CIPP	RPET AND VIRGIN SOLUTIONS FOR CURED IN PLACE PIPING
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Filtration	SPECIALISED FIBRES TO OPTIMISE FILTRATION PERFORMANCE
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Acoustic Insulation	FIBRE RANGE WHICH ALLOW GREATER SURFACE AREA, DELIVERING OPTIMUM ACOUSTIC FUNCTIONALITY
----------------------------	--

Dimensional Stability	STRONG AND DURABLE BONDING FIBRES FOR APPLICATIONS REQUIRING RIGIDITY AND STRUCTURE
------------------------------	--

Thermal Insulation	VERSATILE, RESILIENT FIBRE RANGE WITH EXCELLENT THERMAL INSULATION PROPERTIES
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Sustainability is at the core of what we do

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.

- 1 Wellman International
Cavan, Ireland
FIBRE PRODUCTION
- 2 Wellman International
Verdun France
FLAKE PROCESSING
- 3 Wellman International
Spijk, The Netherlands
FLAKE PROCESSING



high melt crystalline

STRONG BONDING,
THAT ENDURES



Flexible Moulding



Rigidity & Structure Assured





Key features

- Crystalline Polymer with defined melt point
- Excellent Acoustic/Thermal Insulation
- Flexible mouldability with faster mould cycles
- Lightweight Properties
- Options in 165 °C & 195°C
- Dimensional Stability assured
- 100% Recyclable.



Specifications

SPECIFICATION	RANGE
DECITEX	4.8 - 10
CUT LENGTH (mm)	55 - 100
CRIMP (CPI)	8 - 9
FINISH	STANDARD
CROSS SECTION	BICOMPONENT-COPET/PET
COLOUR	WHITE, BLACK

nylon

HIGHLY DURABLE FIBRE
RANGE WITH EXCELLENT
PROCESSABILITY
CHARACTERISTICS



Highly resilient,
durable fibre range



Excellent abrasion
resistance





Key features

- High wear resistance
- Strong abrasive characteristics
- Dyeability
- Efficient Processability/Carding
- High Melting Temperature
- Soiling Resistant



Specifications

SPECIFICATION	RANGE
DECITEX (mm)	7 - 22
CRIMP (CPI)	6 - 12
FINISH	STANDARD
CROSS SECTION	ROUND
COLOUR	WHITE

profile fibres

FIBRES WHICH ALLOW GREATER SURFACE AREA, OFFERING OPTIMUM ACOUSTIC AND HYDROPHILIC FUNCTIONALITY



Novel fibre range with distinctive spatial arrangements



Proven benefits in filtration & acoustic applications





Key features

- Enhanced surface area >150%
- Thermal & acoustic properties
- Hydrophilic properties
- Tailored surface treatments
- 100% Recyclable Fibre



Specifications

SPECIFICATION	RANGE
DECITEX	5.3 - 12
CUT LENGTH (mm)	60 - 76
CRIMP (CPI)	6 - 9
FINISH	STANDARD
CROSS SECTION	ROUND, HOLLOW
COLOUR	WHITE, BLACK



solid fibres

EXTENSIVE, VERSATILE RANGE
OF HIGH PERFORMANCE
POLYESTER STAPLE FIBRES



High performance
and resilience assured



Product support
and stability





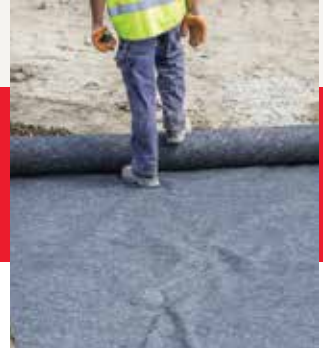
Key features

- Superior fibre quality
- Demonstrated resilience
- Suitable for multiple applications
- Efficient processability
- Product support and stability
- Colour options available
- 100% Recyclable



Specifications

SPECIFICATION	RANGE
DECITEX	7.7 - 28
CUT LENGTH (mm)	38 - 100
CRIMP (CPI)	6 - 12
FINISH	STANDARD
CROSS SECTION	ROUND
COLOUR	WHITE



oleophobic

FIBRE WITH A UNIQUE OIL/
WATER REPELLENT ACTION FOR
SPECIALISED APPLICATIONS



Oil/water repellent fibre



Suitable for specialised
filtration applications





Key features

- Oleophobic/Hydrophobic
- Hydrophobic/Oleophilic (for liquid separation)
- Can be applied to any fibre type
- 100% Recyclable Fibre



Specifications

SPECIFICATION	RANGE
DECITEX	1.7 - 28
CUT LENGTH (mm)	38 - 76
CRIMP (CPI)	6 - 12
FINISH	OIL/WATER REPELLENT
CROSS SECTION	ROUND
COLOUR	WHITE, BLACK



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