



CONGRESSO INTERNACIONAL DE CELULOSE E PAPEL

PULP AND PAPER INTERNATIONAL CONGRESS

ABTCP 2023
 17 a 19 de outubro
 October 17 - 19
 Novotel Center Norte
 São Paulo | SP | Brasil

Realização:



Correalização:



NEW COATING PROCESS WITH MFC PROVEN IN FULL-SCALE



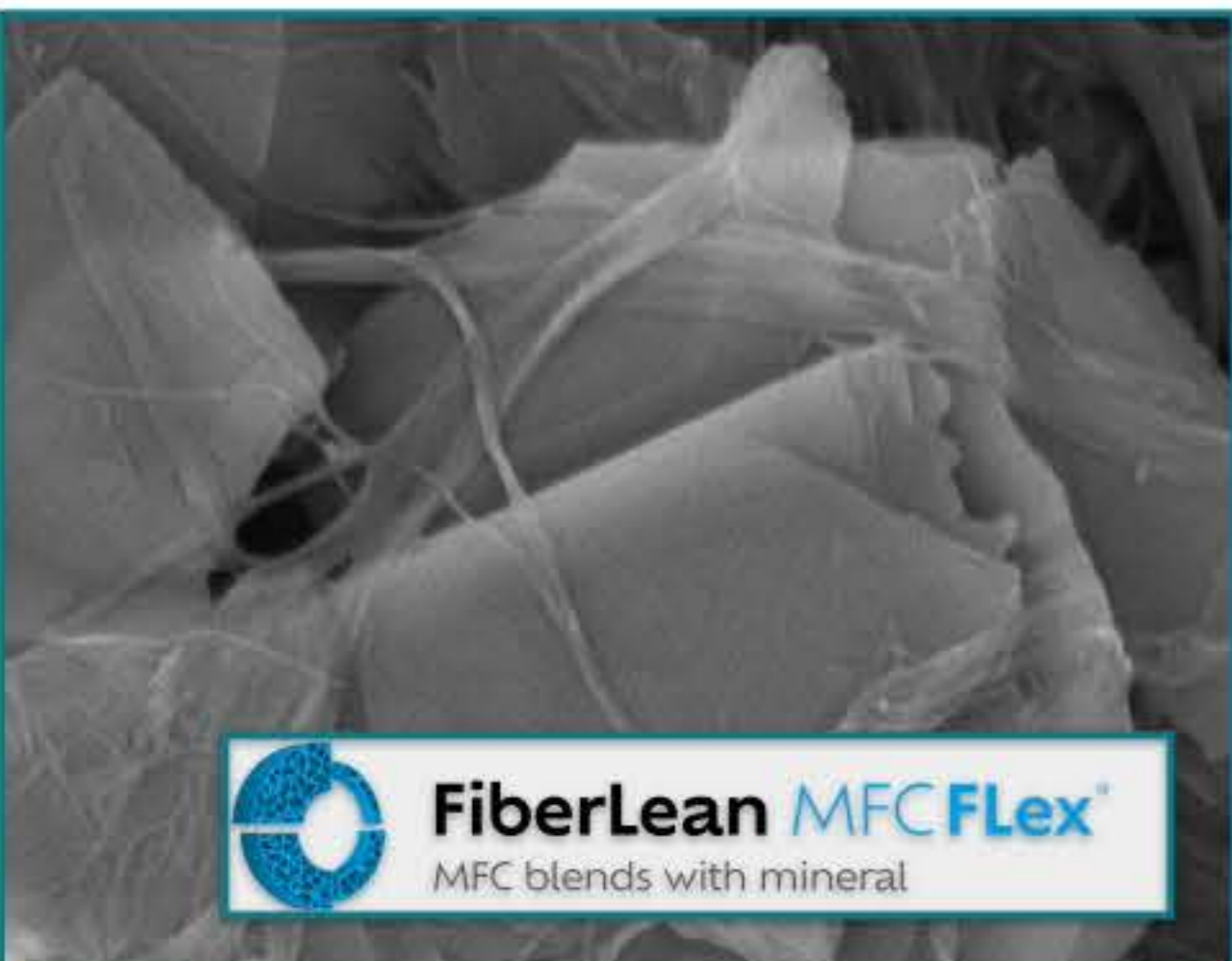
THE MFC INDUSTRIAL PRODUCTION UNIT

What is Microfibrillated Cellulose (MFC)?



Our process converts cellulose, sourced from wood fibres, into its primary constituent building blocks; fibrils.

These fibrils are re-engineered at micro-scale to have a large aspect ratio and high surface area, yielding an interconnecting, dense, web-like network referred to as **Microfibrillated Cellulose**.



Our FiberLean MFC can be made from "pure" cellulosic fibres (FiberLean MFC Fly), or blended with mineral (FiberLean MFC Flex), to use the optical properties of filler while ensuring strength from the MFC.

How to produce MFC? – Onsite production unit



- ✓ **Grinding technology:**
- ✓ 100% mechanical, **chemical-free** process.
- ✓ **Low energy** consumption and **low-cost** operation.
- ✓ **High-throughput continuous** operation.
- ✓ **Low maintenance costs** and **high uptime** (>95% plant availability).
- ✓ **Highly-automated modular** plant design with online monitoring.
- ✓ **Optimal value creation** through a balanced relationship between cost and performance.

COAT MFC ONLINE ON PAPER MACHINE



How to apply MFC? – Industrial Process: the **MFC FLoT Jet Applicator**

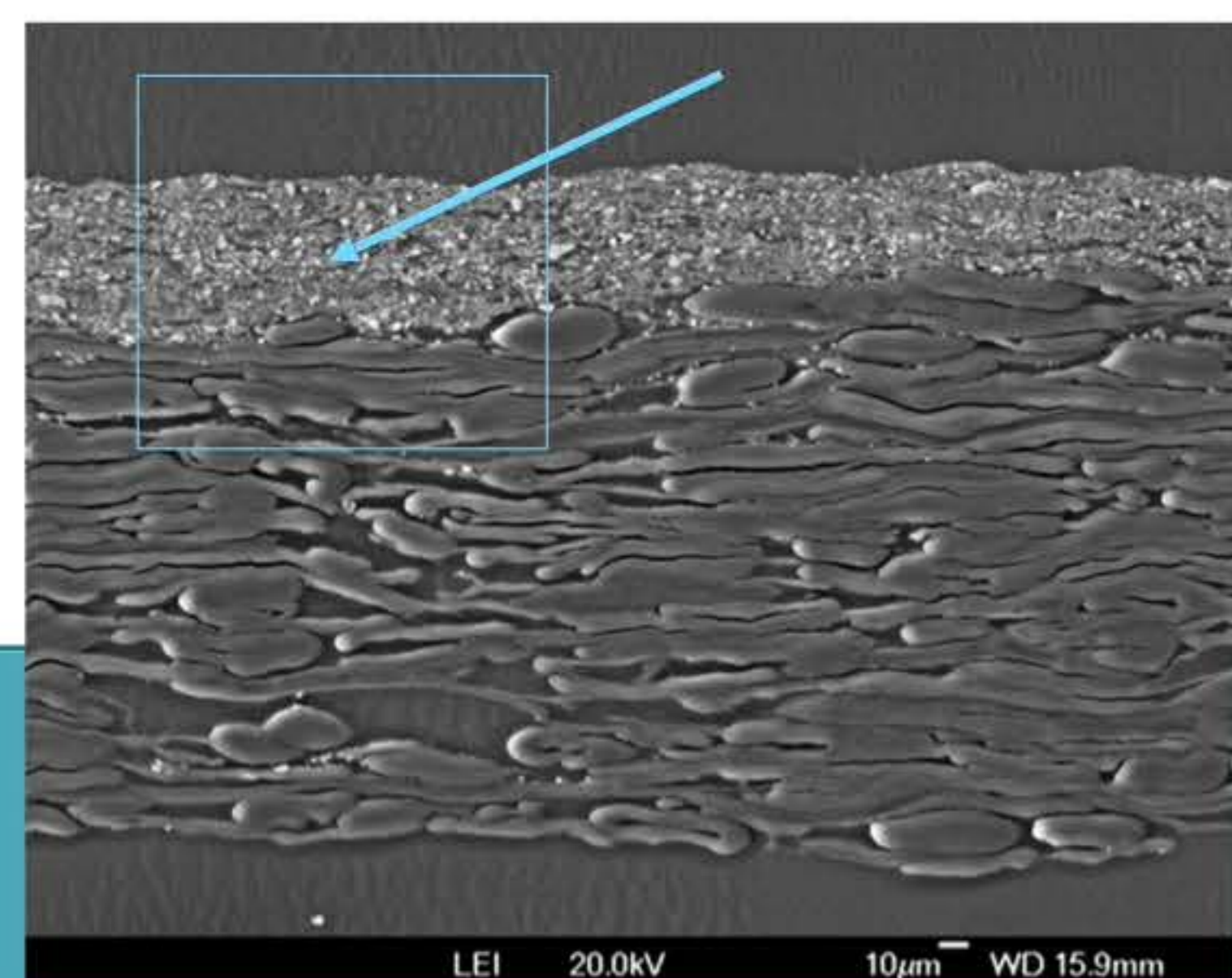
- Drain, press and dry using existing paper machine equipment.
- Low CapEx requirement.
- 2-layer sheet functionality achieved with 1 forming section and no coaters.
- Convert existing production lines to new grades.
- FiberLean are the inventors & patent owners globally of this exciting technology.

IMPROVED BOARD PRODUCTS WITH MFC

White top liner with minimal white fibres

Made with a single layer brown board coated with MFC

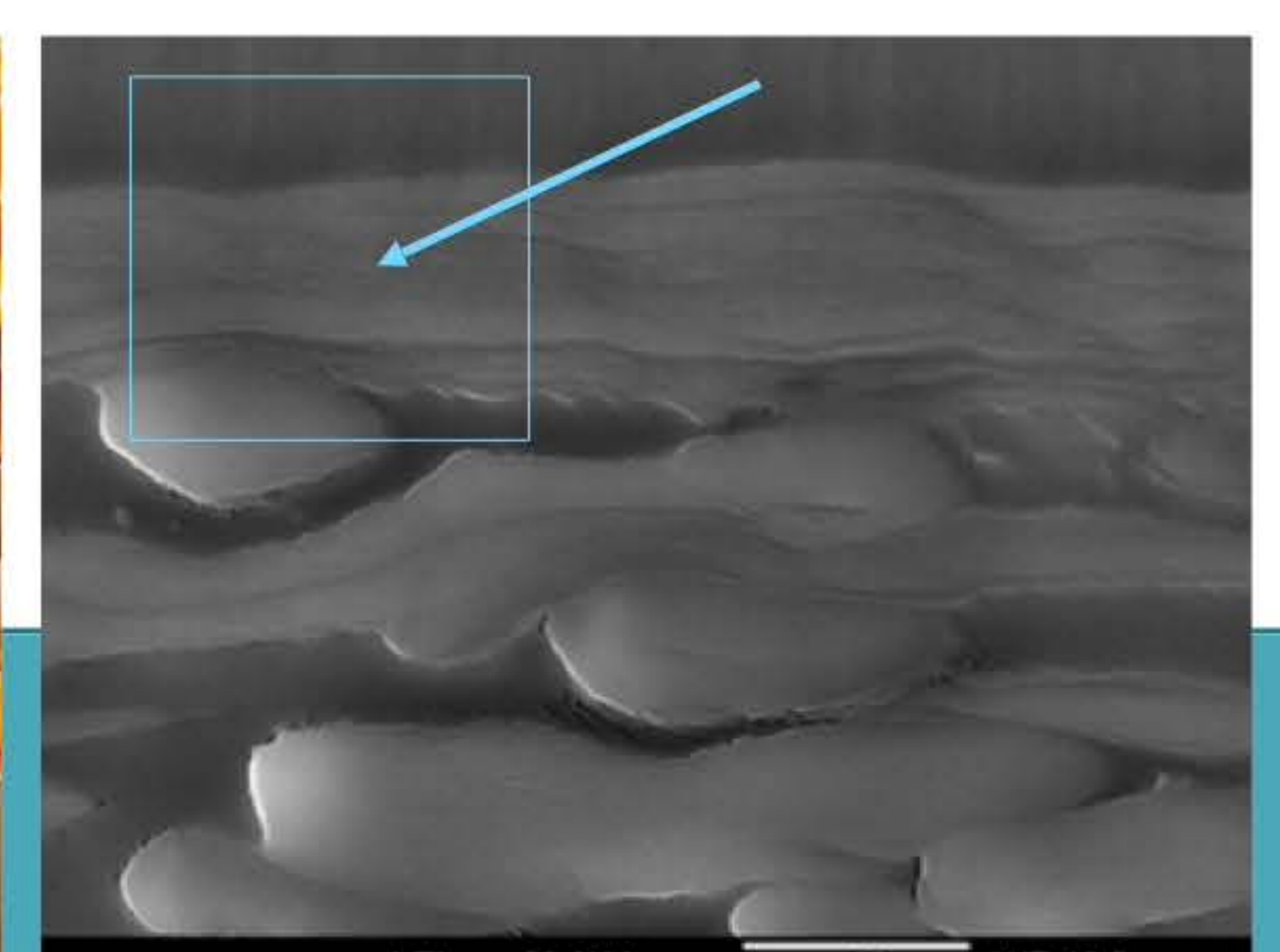
- Mineral particles provide a bright, white, printable surface to uniformly cover the dark base.
- MFC binds mineral particles at the surface, ensuring no penetration into the base and high surface strength.



Sustainable Barrier paper products

Apply a 100% natural, bio-based MFC barrier on top of the sheet

- Applying 12gsm MFC on the surface of the paper permits to achieve a Kit 12 barrier.
- Efficient natural barrier for mineral oil, grease, oxygen, aroma
- Smooth & closed surface; high strength and durable layer



Alessandro Martoni
 Regional Commercial Director
www.fiberlean.com