# FibraLAST<sup>™</sup> PC-200 Non-fluorinated Barrier Technology

Additive for paper and paperboard products





### **Our Mission**

We're committed to supplying our customers high-performance material solutions through our motivated employees, innovative technologies and responsiveness.





Designed as an environmentally friendly alternative to traditional oil sizing product grades as nonfluorinated sizing additives to protect paper products from both water and food oils.

## **New Non-fluorinated Barrier Technology**

Fluorinated vs. Non-fluorinated FibraLAST

Coats individual fibers

AGC

 Low surface energy of the fibers prevents penetration by higher surface tension liquids

- Coats fibers and fills pores in fiber network
- A single wet-end additive repels both water and oil
- Unique combination of chemical and physical barrier
- Liquids face a tortuous path to penetrate fiber network



## **Applications for FibraLAST Additives**

- Molded, formed fiber, and cardboard products
- Fast-casual bowls, plates, containers, pizza boxes



## **Approved for Food Contact**

- FDA compliant for contact with food of all types, with the following limitations:
  - 1. Maximum loading of 20% active content by weight of oven-dried pulp
  - 2. Apply prior to sheet forming
  - **3.** Use in accordance with current good manufacturing practice
- Kosher approval pending



### **Benefits for Paper and Molded Fiber Products**

- Repels water
- Provides a barrier against food oils and greases
- Prevents bleed-through of high-temperature liquids and oils
- - 80 °C water and oil holdout performance
- Patent pending technology
- Made in the U.S.A.



### **Environmental Benefits**

- Non-fluorinated
- No silicones
- No heavy metals
- Plant derived components



## **Processing with FibraLAST**

- Applied to the paper pulp itself
- Designed for wet end processes
- No additional equipment or process required since additives are applied to the pulp before fabrication

### **FibraLAST Certification Status**

Certification	Status
FDA Food Contact	$\checkmark$
BfR Compliant	In progress
BPI Certified Compostable	In progress
Kosher	In progress*
Kosher certification of manufacturing facility	In progress
on DSL	$\checkmark$
ChemForward or GreenScreen inventories	Being considered

\*raw materials are not animal sourced

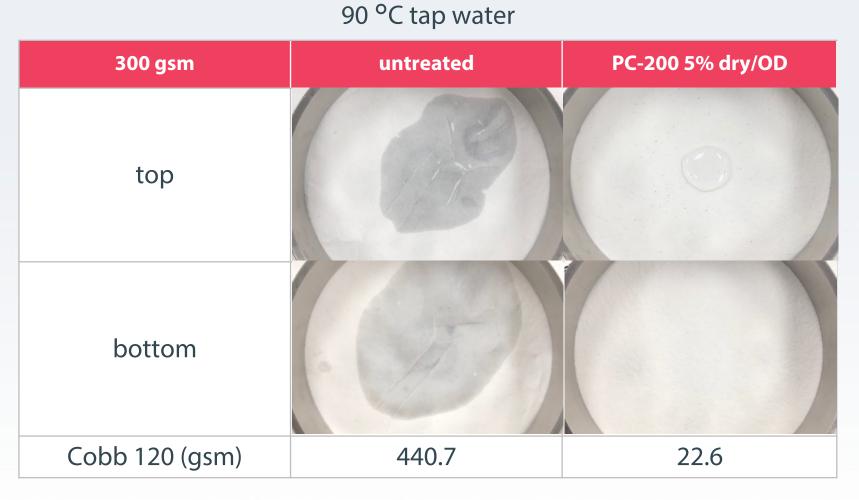
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### **TAPPI Holdout Performance Test Results**

### 80 °C Mazola<sup>®</sup> corn oil for 2 hours



### **TAPPI Holdout Performance Test Results**



\*No AKD or ASA needed

### **FibraLAST Now Available**



• Currently in scale-up

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- Will be manufactured in the United States
- Not currently available in all regions

### Learn more

<u>www.agcchem.com</u> 610-423-4300 **800-424-7833** 

### **AGC Global Operations**



### **Global Network**

#### AGC Chemicals Japan

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- Headquarters Tokyo
- Factories Chiba and Kashima
- Sales offices Tokyo, Osaka, Fukuoka, Nagoya
- R&D Yokohama

### **AGC Chemicals Asia**

- AGC Chemicals Trading Co. Ltd. Shanghai, China
- P.T. Asahimas Chemical Jakarta, Indonesia
- AGC Chemicals Co. Ltd. Bangkok, Thailand
- AGC Chemicals Asia Pacific Pte. Ltd. Singapore

#### **AGC Chemicals Europe**

- Head Office and Production Plant Thornton Cleveleys, UK
- Chemicals Commercial Center –
  Amsterdam, The Netherlands
- Sales office in Russia

### **AGC Chemicals Americas**

- Head Office and Technical Center Exton, Pa.
- Production Plant Thorndale, Pa.
- Formed in 2004 through a merger with AGA Chemicals and AG Fluoropolymers USA
- Sales office in Guaratinguetá Brazil