



High Purity Woodpulp for the Nitrocellulose Industry



Rayonier Advanced Materials

90 years of delivering excellence in High Purity Cellulose

- **1926** - began operations as **Rainier Pulp and Paper** in Shelton Wash.
- **1939** - opened Fernandina Mill, Florida
- **1954** - opened Jesup mill, Georgia
- **1994** - completed spinoff from ITT
- **2014** - separated into two companies Rayonier and **Rayonier AM**
- **2017** - **Tembec acquisition forms global High Purity Cellulose leader**



A Global Footprint By The Numbers

Rayonier Advanced Materials maintains corporate offices in the United States and Canada.

4,200 Employees

U.S., Canada, France, United Kingdom, China and Japan

19 Manufacturing Facilities

U.S., Canada and France

8 Sales Offices

United States, Canada, United Kingdom, China and Japan





2 Research Facilities

United States and France



Integrated and Complementary Businesses

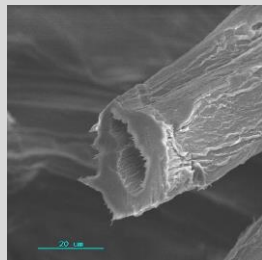
Stronger and more diversified

	High Purity Cellulose	Forest Products	Packaging & Newsprint	High-Yield Pulp
Products	<p>Dissolving Wood Pulp</p> <p>Acetate Ethers Specialties Viscose</p> <hr/> <p>Fluff Pulp</p>	<p>Dimensional Lumber Framing Materials Wood Chips Fuel (Chips, Sawdust, Shavings & Bark)</p>	<p>Packaging Multiply Coated Board Newsprint Book Paper</p>	<p>Mechanical Hardwood Pulp (Maple & Aspen)</p>
End Markets				

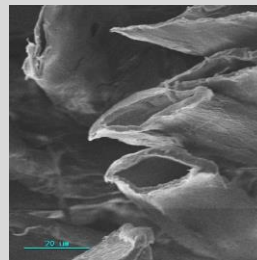
High Purity Cellulose Operations

Locations	Wood species	Pulping Process	Production lines
Jesup, Georgia	Southern Pine + Hardwood	Kraft	3
Fernandina, Florida	Southern Pine	Sulfite	1
Temiscaming, Quebec	Northern Softwood	Sulfite	1
Tartas, France	Southern Softwood	Sulfite	1

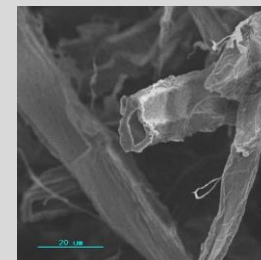
Rayonier Advanced Materials' Unique Fibre basket



Southern Softwood



Northern Softwood

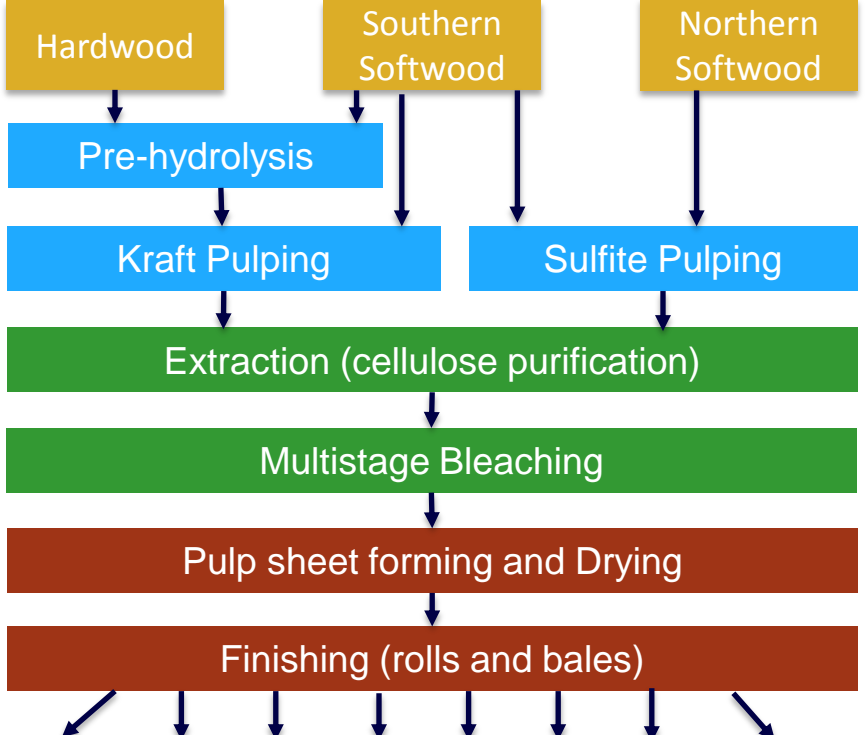


Hardwood

Technical leadership in High Purity Cellulose

The Rayonier Advanced Materials' Recipe

CUSTOMIZED FOR EACH CUSTOMER APPLICATION



- PROCESS FLEXIBILITY**
- Fiber Morphology (length / coarseness)
- Pulping Low / High pH
- Extraction Cold / Hot Caustic
- Bleaching sequence
- Pulp sheet properties

CUSTOMER – END USES			
ACETATE	NITRATE	ETHERS / MCC	SPECIALTY VISCOSE
Filter, Plastic, Film, Textile	Inks, Lacquers, Coatings Energetic Material	Construction, Paints, Food & Pharma	Tire Cord, Casings, Cellophane, Sponges



Rayonier Advanced Materials

Nitrocellulose grades portfolio

- Produced in North America (USA and Canada) and Europe (France)
- Northern and Southern Softwood
- Kraft and Sulfite grades
- Ultra High Purity capability
- Wide Viscosity range capability
- Pulp Sheet properties can be adjusted
- MIL 216-C compliance
- Sustainable alternative to Cotton Linter Pulp

	Grade	Location	Wood Species	Pulping process
Standard Grades	Nitranier-F	Florida	Southern Pine	Sulfite
	Nitranier-J	Georgia	Southern Pine	Kraft
	Ultranier-J	Georgia	Southern Pine	Kraft (Ultra High Purity)
	Biofloc 94	France	European Southern SW	Sulfite
	Temalfa 93N	Canada	Northern Softwood	Sulfite