

ARBOCEL®

Natural Cellulose Fibers



Natural Fibers for
Industrial and Technical Applications



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Specializing in Raw Materials for Industry



EXPERIENCE, TECHNOLOGY, SERVICE

J. RETTENMAIER USA LP



Fibers designed
by Nature
A Member of the JRS Group

Application Overview

ARBOCEL® Product	BULK DENSITY (g/L)	Length (um)	% Ash	% H2O	SIEVE ANALYSIS (% Retained)				PULP TYPE (raw material)	Common Uses
					500 Mesh	325 Mesh	270 Mesh	100 Mesh		
					28	43	53	147		
ARBOCEL® 185	59	1000	18%	<5%	82%	73%	70%	36%	reclaimed grey	Automotive Dampeners, Rubberized / Asphalt Sealants, and Refractories.
ARBOCEL® 230	60	1000	18%	<5%	78%	69%	66%	28%	reclaimed grey	Friction, Automotive Dampeners, Rubberized/Asphalt Sealants, Vinyl Adhesives, Asphalt Roof Cement and Coatings.
ARBOCEL® ETF	60	1000	18%	<5%	71%	63%	58%	20%	reclaimed grey	Friction, Rubberized/Asphalt Sealants, Vinyl Adhesives, Asphalt Roof Cement and Coatings.
ARBOCEL® JMM	85	800	18%	<5%	67%	52%	49%	5%	reclaimed grey	Roll Lining, Automotive Dampeners, Grouts, Tile Adhesives, and Asphalt Roof Coatings.
ARBOCEL® FT	92	500	18%	<5%	64%	48%	42%	2%	reclaimed grey	Butyl Sealants, Epoxy Mastics, Grouts, Tile and Vinyl Adhesives, Acrylic Tennis Court Coating, Aluminum Roof Coating, Asphalt Pavement Resurfacers, Rubberized Cold Pour Crack Fillers, Texture coatings, and Rubber.
ARBOCEL® FTP	92	500	18%	<5%	65%	48%	42%	2%	reclaimed grey	Asphalt Emulsion Seal Coats, Acrylic Tennis Court Coatings, Cushion Coats for Recreational Surfaces, and Rubberized Cold-Pour Crack Fillers.
ARBOCEL® GC66	110	300	18%	<5%	56%	39%	31%	0%	reclaimed grey	Butyl Sealants, Epoxy Mastics, and Aluminum Roof Coating.
ARBOCEL® GC10	120	250	18%	<5%	52%	33%	26%	0%	reclaimed grey	Epoxy Mastics, Grouts, Aluminium Roof Coatings.
ARBOCEL® 5FT	92	500	25%	<5%	64%	48%	42%	0%	reclaimed white	Acrylic Roof Coatings, Acrylic Tennis Court Coatings, Stucco, and Texture Coatings.
ARBOCEL® GCW10	120	250	25%	<5%	48%	31%	26%	0%	reclaimed white	Epoxy Mastics, Acrylic Roof Coatings, Acrylic Tennis Court Coatings, Stucco, and Texture Coatings.

ARBOCEL® Product	BULK DENSITY (g/L)	Length (um)	% Ash	% H2O	SIEVE ANALYSIS (% Retained)				PULP TYPE (raw material)	Common Uses
					435 Mesh	140 Mesh	70 Mesh	50 Mesh		
					32	100	200	300		
ARBOCEL® BWW40	130	200	<1%	<4%	65% max	20% max	-	0.5% max	virgin white	Filtration, Grouts, Stucco, Thinsets, and Precast.
ARBOCEL® B800	170	100	<1%	<8%	60% max	7% max	0.5% max	-	virgin white	Granulation Feed Stock, Gold Processing Filtration, and Carpet Cleaners.
ARBOCEL® B600	200	60	<1%	<8%	30% max	3% max	0.5% max	-	virgin white	Wood Glues.

**We are your problem solver –
try our starting formulas, labs,
and testing services.**

What is ARBOCEL® ?

ARBOCEL® is a powdery fibrous cellulose additive for use in a wide variety of construction chemical products.

ARBOCEL® additives are produced from cellulose. A whole range of renewable and recycled raw materials are available for producing cellulose.

ARBOCEL® is water-insoluble cellulose left in its natural state (not comparable to water-soluble cellulose ethers).

ARBOCEL® is produced in various qualities (fiber lengths, thickness, purities, etc.) for a very wide range of industrial chemical and Technical applications.

Versatile Functions That Make An Impact

- Binders
- Spacers
- Abrasives
- Disintegration
- Strengthening
- Flow Aid
- Pigment Suspension
- Decomposition
- Tableting Material
- Thickeners
- Extrusion
- Swelling
- Draining
- Reinforcing
- Thixotropic
- Delustering
- Fillers
- Pressing Additives
- Drying
- Separator Material
- Dispersants
- Anticaking
- Granulating Material
- Absorbers
- Stability in the Green Stand
- Stabilizers

What is ARBOCEL® used for?

ARBOCEL® functionality in **paints**: provides texture, prevents mud cracking, reduces slump, matting agent, and improves dry time.

ARBOCEL® functionality in **cements**: improves open times, prevents cracking, is sag resistant, improves trowelability, and increases tensile strength.

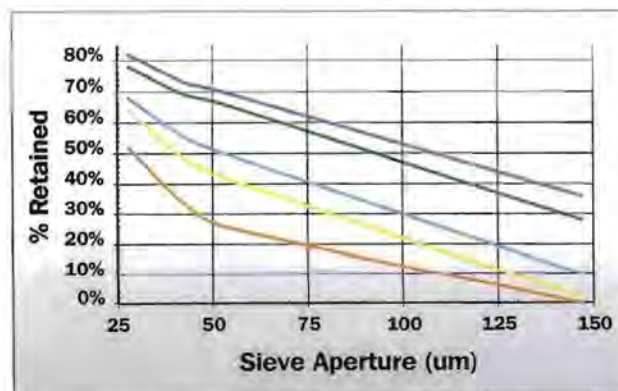
ARBOCEL® functionality in **asphalt** coatings and sealers: replaces asbestos, helps control viscosity, improves gel structure, and provides a reinforcement matrix.

ARBOCEL® functionality for **friction materials**: provides pre-form reinforcement and green strength in non-asbestos formulas. Fiber matrix helps maintain a homogeneous mixture.

ARBOCEL® functionality in **rubber**: provides increased tensile strength and reinforcement.

ARBOCEL® functionality in **adhesives** and **sealants**: allows for thickening, reinforcement, and sag resistance.

And many more applications not listed.....



J. Rettenmaier USA LP ARBOCEL® Cellulose Particle Size Analysis

- ARBOCEL® 185
- ARBOCEL® 230
- ARBOCEL® JMC
- ARBOCEL® FT
- ARBOCEL® GC10



JRS - your strong SYSTEM PARTNER and SOLUTION PROVIDER for natural fibers in industrial and technical applications

At **JRS, J. RETTENMAIER & SÖHNE** Group, we are committed to the development, processing, and optimization of high-grade natural fibers from cellulose, wood, grain and fruit plants for use in pharmaceuticals, foods, industry and technology.

Our core expertise lies in the processing of renewable, application-specific plant derived fibers. JRS Fiber products are made from natural renewable raw materials.

With our fibers we create solutions for many products and technical chemical processes. We are committed to meeting high ecological standards from the selection of raw materials to the use of environmentally friendly manufacturing processes. We aim for ecological, as well as economical sustainability.

JRS - YOUR Qualified Partner - worldwide

- **Worldwide logistics and presence**
- **21 manufacturing locations in Europe, USA, India, Mexico**
- **High availability and efficient, high- capacity production**
- **Over 1900 employees worldwide**
- **In-house research and development, application services**
- **Over 250 technical representatives around the world**
- **Decades of experience and com-prehensive application know-how**
- **Quality manufacturing according to ISO 9001**

Other JRS Products and Services include:

- A Wide Range of Plant Fibers (Fruit, Grain, Vegetable, Wood)
- Microcrystalline Cellulose (MCC)
- Ultrafine Cellulose
- Cellulose Derivates (HPMC, MC)



JRS - main plant and head office
Rosenberg,
Germany



JRS plant
Schoolcraft, Michigan
USA

J. RETTENMAIER USA LP



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America, Mexico, Poland,
Russia, Spain, USA



21 production plants in Germany, Finland, UK, USA, Mexico, India