



## ABITEC Corporation

501 West First Avenue  
P.O. Box 569  
Columbus, OH 43215 USA  
Toll Free: 800-555-1255  
Phone: 614-429-6464  
Fax: 614-421-7996  
E-mail: [info@abiteccorp.com](mailto:info@abiteccorp.com)  
[www.abiteccorp.com](http://www.abiteccorp.com)



### USA

#### Manufacturing & Warehouse Locations

1530 South Jackson Street  
Janesville, WI 53546 USA  
Phone: 608-752-9007  
Fax: 608-755-9842

1800 Main Street  
Paris, IL 61944 USA  
Phone: 217-465-8577  
Fax: 217-863-2844

All information and statements given in this brochure are believed to be accurate at the time of publication. However, neither ABITEC Corporation nor any of their affiliates make any representations or warranty with respect thereto, including, but not limit to, any results obtained in the processing of the products by customers or any third party. All information and statements are intended for persons having the required skill and know-how and do not relieve the customer or user from verifying the suitability of information and statements given for a specific purpose prior to use of products. It is entirely the obligation of the customer or user to comply with applicable laws and regulations, and also with all patent or other intellectual property rights of third parties. ABITEC CORPORATION EXPRESSLY DISCLAIMS ANY REPRESENTATIONS OR WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, CURRENCY, COMPLETENESS AND/OR THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF ANY INFORMATION CONTAINED IN THIS BROCHURE AND/OR ANY PRODUCT DESCRIBED OR PROMOTED IN THIS BROCHURE, INCLUDING WARRANTIES WITH RESPECT TO INFRINGEMENT OF ANY PATENT, COPYRIGHT, OR OTHER RIGHTS OF A THIRD PARTY. We reserve the right to change product specification and not specified properties of the products without prior notice.

11/2011



[www.abiteccorp.com](http://www.abiteccorp.com)



# Rinse Cycle Fabric Softeners

Designed for the industrial, institutional, and consumer industries

[www.abiteccorp.com](http://www.abiteccorp.com)





ABITEC has been a manufacturer of rinse cycle fabric softeners for more than 25 years. Our vast experience and expert formulation knowledge provides us the flexibility to produce all types of tallow and vegetable-sourced DMS quaternaries (e.g., diamido amine, imidazolinium, and TEA ester quaternaries) at volumes from small pail to rail cars.

ABITEC’s Accoquat rinse cycle fabric softener concentrates:

- improve product color and color consistency,
- improve formulation base odor (reducing fragrance loading),
- improve product dispersibility and ease of formulation, and
- provide cost effectiveness.

ABITEC has a long history providing custom work for the chemical manufacturing community. We respond with speed and flexibility to surges in demand. Our quaternary expertise is available for all your softener product needs and we are ready to assist, even the smallest customer formulation requirements.

Diamido Amine Quaternaries

A widely used dimethyl sulfate quaternary for fabric softeners that require very low textile yellowing (even at high dryer temperatures), excellent softening and static control, exceptional formulation stability (low hydrolysis rates), and ease of product handling and formulation.

In addition to hard and soft tallow base materials, ABITEC offers vegetable sourced quaternaries as a green alternative. These are typically more fluid and easier to work with than tallow based quaternaries. They can also be easily formulated into softener sours (softeners having acids like citric or phosphoric in them to neutralize residual caustic in the industrial washes) or softener detergent combination products.

Imidazolinium Quaternaries

Imidazolinium DMS quaternaries are the best softeners on an actives basis, providing superior static control and softening properties with a low base odor. Compared to diamido amine quaternaries, they soften 30% better on an actives basis.

ABITEC offers a vegetable sourced imidazolinium quaternaries as a green alternative. This type of quaternaries is typically more fluid and easier to work with than tallow based. They can also be easily formulated into softener/ sours or softener detergent formulations.

TEA Ester Quaternaries (Listed on CleanGredients.com)

TEA ester quaternaries are primarily used as consumer rinse cycle fabric softeners due to:

- being readily biodegradable (may be suitable for DfE formulations\*),
- low base product odor,
- possess excellent product color and softening, and
- are widely accepted and used globally.

\*Design for the Environment—This mark enables consumers to quickly identify and choose products that can help protect the environment and are safe for families. For more information regarding the designation, visit [www.epa.gov/dfe](http://www.epa.gov/dfe).



Diamido Amine Quaternaries

Product	Physical Appearance at Room Temperature	Solvent	Actives (%)	Raw Material Base	Flammability†
Accoquat® 522 LM-90	Liquid	IPA	90	Soft tallow	F
Accoquat 522 LM-75	Liquid	IPA	75	Soft tallow	F
Accoquat 522 HF-90	Paste	DEG	90	Soft tallow	NF
Accoquat 422-75	Solid	IPA	75	Hard tallow	F
Accoquat 622 HF-90	Thick liquid	PG	90	Vegetable	NF
Accoquat 622-90	Liquid	IPA	90	Vegetable	F

Imidazolinium Quaternaries

Accoquat 875-90	Soft paste	IPA	90	Soft tallow	F
Accoquat 875-80	Liquid	IPA	80	Soft tallow	F
Accoquat OIMS HF-90	Liquid	PG	90	Vegetable-oleic	NF

TEA Ester Quaternaries

Accoquat STEQ-90‡	Paste	IPA	90	Soft tallow	F
Accoquat VEQ HF-85‡	Thick paste	PG	85	Vegetable	NF

†Flashpoint below 100 °F at (37.8 °C); Pensky-Martens Closed Cup procedure.  
‡Listed on CleanGredients. Visit [www.cleangredients.com](http://www.cleangredients.com) to learn more.  
Isopropyl alcohol (IPA)    Diethylene glycol (DEG)    Propylene glycol (PG)    Flammable (F)    Nonflammable (NF)

For product recommendations, regulatory issues, and analytical inquiries, e-mail [laundry.techsupport@abiteccorp.com](mailto:laundry.techsupport@abiteccorp.com).