



Bacote® Series (Bacote 20, Bacote M, Bacote XL)

CAS NUMBER: 68309-95-5

CA INDEX NAME: Zirconate (2-), bis[carbonato (2-)-kappaO] dihydroxy-diammonium, Diammonium bis[carbonato-O]dihydroxyzirconate

SYNONYMS: Stabilized Ammonium Zirconium Carbonate (AZC)

Appearance and General Characteristics

Bacote Series of products consist of a clear, aqueous alkaline solution of stabilized ammonium zirconium carbonate, available in multiple concentrations. There is a slight ammonia odor associated with Bacote, and ammonia is released upon evaporation. There is no odor associated after curing. Bacote products are effective inorganic crosslinkers suitable for practically all types of pigmented paper and paperboard applications.

Product Benefits

- **Formaldehyde-free** – Environmentally conscious
- **Rapid cure** – No need for elevated temperatures or extended curing time
- **Effective with all commonly used binders**
 - Starch, CMC, casein, proteins, carboxylated latex, dextrin, styrene acrylic, PVOH, etc.
- **Improved printability** – Achieved through optimal water resistance, an open coating structure, reduction of contact angle and uniform distribution of binders throughout the coating reducing mottle
- **No adverse effects on optical properties** – No time or heat exposure yellowing
- **FDA and BfR approved** – Used in direct contact with aqueous, fatty and dry foods

Applications

1. Binder insolubilizer for paper and paperboard coatings, along with dry-laid non-woven materials
2. Deposit Control in the wet-end of the paper-making process
3. Strength additive for alkaline-sized paper
4. Component of water-based inks, overprint varnishes, paints, adhesives, coatings, etc.
5. Antimicrobial treatment for textiles and timber, especially for fixation of copper salts
6. Component of textile, leather and paper water-repellent formulations
7. Coagulant in the manufacturing of synthetic leather-cloth and non-wovens
8. Metal pre-treatment coatings
9. Precursor to zirconia (ZrO₂) in catalyst systems
10. Fiberglass wall coverings
11. Crosslinker for polyvinyl alcohol (for neutral/basic conditions)

Available Packaging

- Plastic/metal pails
- Plastic/metal drums
- Plastic IBCs/totes
- Bulk quantities available upon request

For additional information, including Safety Data Sheets for all products, please visit our website

www.luxfermeltechnologies.com

Discover more at
www.luxfermeltechnologies.com

Copyright © Luxfer MEL Technologies 2019. The information provided within this document is aimed to assist manufacturers and other interested parties in the use of Luxfer MEL Technologies products. Luxfer MEL Technologies accepts no liability in whole or in part from use and interpretation of the data herein. All information is given in good faith but without warranty. Freedom from patent rights must not be assumed. Health and Safety information is available for all Luxfer MEL Technologies products. **DS-1038-1119**

Luxfer MEL Technologies
Elektron Technology Centre
Lumns Lane, Manchester, M27 8LN, UK
T +44 (0) 161 911 1000

Luxfer MEL Technologies
500 Barbertown Point Breeze Road
Flemington, NJ 08822, USA
T +1 908 782 5800