AQUABOND
Chemistry for Tomorrow

AQUA BOND ZirCan™ SPECIALTY PRODUCTS FOR PAPER AND PAPERBOARD

Aqua Bond is a Canadian manufacturer of specialty chemicals and Zirconium crosslinkers for paper and paperboard. We provide high quality products, simplified supply chain and locally tailored service for our partners to be more competitive and sustainable over the long term.

Aqua Bond provides high performance Zirconium-based products for multiple industries in Canada and USA



- ✓ **Pulp and Paper**
- ✓ **Paints, Coatings, Inks**
- ✓ **Metal and Surface Finishing**
- ✓ **Personal Care**

ZirCan™ ZIRCONIUM CROSSLINKERS FOR COATED PAPER AND PAPERBOARD

Aqua Bond provides ZirCan™ zirconium crosslinkers of different grades to match technical requirements of various paper and paperboard applications.

Aqua Bond zirconium products have an optimized chemical composition and reliable quality to ensure high performance in paper coatings, binder crosslinkers, printing and packaging applications.

Zirconium crosslinkers improve mechanical strength, water repellency, scrub resistance, adhesion and printability. Zirconium crosslinkers are well integrated into paper processing due to fast curing and alkaline pH.

Zirconium has become the leading eco-friendly alternative to formaldehyde and hazardous chemicals, especially for paperboard and products used in food packaging.

CANADIAN-BASED SUPPLY CHAIN AND SERVICE FROM AQUA BOND

Aqua Bond is based in Toronto, Canada and our focus is on manufacturing high performance products tailored for the Canadian and US industries. Our flexible operations and dedicated team enable us to manufacture customized products tailored for the specific needs of our clients in Canada and USA. Aqua Bond helps Canadian manufacturers become more competitive through simplified and responsive supply chains and local solutions.

- Simplified supply chain of raw materials and specialty chemicals in Canada
- Competitive product offerings delivered directly from Canadian manufacturing site
- Manufacturing capabilities for custom products tailored to client needs
- Quality systems and R&D for consistently delivering quality products over the long term
- Sustainable long-term business focus on delivering value to our clients and partners
- Locally tailored service and support

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ZirCan™ ZIRCONIUM CROSSLINKERS FOR PULP & PAPER, PAPERBOARD

Zirconium is widely used in products for paper coating and crosslinking of polymers in paints and coatings to deliver high performance for demanding applications, such as packaging. Zirconium crosslinkers are effective in improving mechanical strength, water repellency, adhesion, printability, scrub resistance, and heat resistance.

There are multiple reasons why manufacturers choose Zirconium crosslinkers for paper and coatings applications:

Efficient Processing at alkaline pH
Zirconium crosslinkers have a high pH which makes them well suited and efficient in paper processing.

Fast Curing at room temperature
Zirconium crosslinkers cure quickly by drying without needing heat or long curing times.

Environmental and Regulatory Compliance
Zirconium crosslinkers are non-toxic and are approved as indirect food additives in paper and paperboard components in contact with foods (F.D.A. 21 CFR 176.170). This makes Zirconium crosslinkers an excellent alternative to formaldehyde and melamine containing resins for health, environmental and regulatory compliance.

Aqua Bond Specialty Zirconium Products ZirCan™

ZirCan™ AZC20 **Ammonium Zirconium Carbonate**	• Crosslinker and binder insolubilizer for paper and paperboard coatings • Alkaline aqueous zirconium solution with 20% ZrO_2 and stabilizer
ZirCan™ AZC XL **Ammonium Zirconium Carbonate**	• Crosslinker and binder insolubilizer for paper and paperboard coatings • Alkaline solution of highly active zirconium crosslinker with stabilizer
ZirCan™ KZC 20 **Potassium Zirconium Carbonate**	• Odor-free crosslinker and binder insolubilizer for paper and paperboard • Alkaline aqueous zirconium solution with 20% ZrO_2 and stabilizer
ZirCan™ KZC XL **Potassium Zirconium Carbonate**	• Odor-free crosslinker and binder insolubilizer for paper and paperboard • Alkaline solution of highly active zirconium crosslinker with stabilizer
ZirCan™ ZAC22 **Zirconium Acetate**	• Adhesion promoter in waterborne inks, water repellency agent • Acidic aqueous zirconium solution with 22% ZrO_2
ZirCan™ ZAC30 **Zirconium Acetate**	• Adhesion promoter in waterborne inks, water repellency agent • Acidic aqueous zirconium solution with 30% ZrO_2






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