



## Zirconium Based Solutions

### Introduction

Luxfer MEL Technologies (LMT) is a world leader in Zirconium chemistry, offering a wide variety of zirconium based solutions for a diverse customer base and range of applications.

Some of the applications are in the catalyst manufacturing arena and include their use as binders for catalyst supports, precursors and sources of Zirconium in the finished catalyst.

### Available solutions include (but not limited to):

Product	Typical applications/uses
Ammonium Zirconium Carbonate (AZC)	Crosslinker / Insolubilizer for Paper and Paperboard Manufacturing, among others
Bacote® Series	Stabilized AZC for Crosslinking in Paper and Paperboard Manufacturing, among others
Zirmel™ Series	Stabilized Potassium Zirconium Carbonate (KZC) for Crosslinking in Paper and Paperboard Manufacturing, among others
Zirconium Oxychloride (ZOC)	Binder and Intermediate Material
Zirconium Acetate (22% and 30%)	Catalysis, Ceramic Binder, and Coatings
Zirconium Propionate	Printing Inks
Zirconium Oxynitrate (ZON)	Catalysis, Ceramic Binder, and Intermediate Material
Zirconium Hydroxynitrate (ZHN)	Catalysis, Ceramic Binder
Zirconium Orthosulfate (ZOS)	Crosslinker, Catalysis, Coatings, Intermediate Material, and Titanium Dioxide Treatment
Protec ZZA (Zinc Ammonium Zirconium Carbonate)	Crosslinking in Inks, Adhesives, Paints and Coatings

### Luxfer MEL Technologies' advantages

- LMT is backward integrated, processing our essential raw material, zircon sand.
- Global supply is accomplished from our manufacturing plants in Flemington, NJ, USA and Manchester, UK.
- Available package sizes include: pails, drums, IBCs and totes; bulk container shipments could also be available.
- In addition to solutions, Luxfer MEL Technologies offers a wide range of:
  - Zirconium oxides and hydroxides
  - Zirconium hydroxides and oxides with dopants including rare earths
  - Surface treatments and additives affording materials for solid acid catalysis
- Custom developed products and technologies providing solutions for customer technical and commercial challenges.



Discover more at  
[www.luxfermeltechnologies.com](http://www.luxfermeltechnologies.com)

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† The information contained within is meant as a guideline only

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