



## Zirconium Orthosulfate

CAS NUMBER: 19696-82-3, 14644-61-2

CA INDEX NAME: Dihydrogen oxobis(sulfato(2-)-O,O')zirconate(2-)

SYNONYMS: Zirconyl Sulfate, ZSS, ZOS

### Appearance and General Characteristics

Zirconium Orthosulfate is a strongly acidic clear, aqueous solution. Crystallization of product can occur in relatively short timeframe. Zirconium Orthosulfate provides a concentrated, high purity, easy to process solution, mainly for modifying pigments. A source of zirconia deposited on certain high quality titanium dioxide pigments.

### Available Packaging

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

### Applications

1. Used in titanium dioxide pigment manufacture to reduce yellowing effects from UV light exposure (reduces photo-chemical activity of the titania)
2. Improves gloss retention and reflective properties in oil-based and water-based paints
3. Precursor material for manufacturing other zirconium chemicals
4. Leather tanning agent
5. Precipitation/hardening of gelatin in the photographic industry
6. Insolubilizer for water-based binders in wood adhesives
7. Crosslinker for aqueous polymer emulsion systems
8. Ion exchange

\*This product is currently only manufactured at Luxfer MEL Technologies – Manchester, UK

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