

Zirconium Orthosulfate

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.

Packaging

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

Safety data sheet

Regional SDS information is available on request.

Chemical and physical properties (typical values)

Table 1.

Grade	ZrO ₂ (wt. %)	pH	S.G
Zirconium orthosulfate	18	<1	1.38

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.

Discover more at

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