

Product Specification

Page 1 of 2

Zinc Oxide USP

Description	White fine powder
Method	French method starting with Zinc SHG.
Formula	ZnO
CAS No.	1314-13-2
EINECS	215-222-5

Chemical Properties (Typical)

Element	Values in % weight	Reference Method
ZnO	99.9 min.	USP 40
Total Impurities	0.1 max.	ASTM D4075
Pb	0.002 max.	ASTM D4075
Cd	0.001 max.	ASTM D4075
Fe	0.0005 max.	ASTM D4075
Cu	0.0002 max.	ASTM D4075
Cl	0.0005 max.	ASTM D4075
S	0.001 max.	ASTM D4075
Mn	0.0001 max.	ASTM D4075
As	0.0001 max.	USP 40
Ni	0.0001 max.	ASTM D4075

Physical Properties (Typical)

Description	Results	Reference Method
325 mesh (45 µm)	99.9 % min.	ASTM D4315
Loss on Ignition (500°C)	0.2% max.	USP 40
Water Insolubles	0.1% max.	ASTM D3280
Insolubility in HCl	0.001% max.	ASTM D3280
Specific Gravity	5.5 – 5.7 g/cm ³	ASTM D854
Humidity at 110°C	0.2% max.	ASTM D280
Specific Surface Area	4 – 9 m ² /g	ASTM D4315
Average Particle Size	0.8 µm max.	Laser Diffraction
pH	6.8 – 7.5	Potentiometer

Quality Control

February 21

The specification above has to be considered as technical information, it is presented in good faith, but no warranty is given. The above information does not release the customer from making their own controls and checks upon receipt of the product.

In view of the great variety of possible applications, no assurance is given of the suitability of the product for any particular purpose. Furthermore, since Abbey Chemicals as a material supplier is unable to exercise any control over the use of the products, including designing, testing, specifying a compound or product incorporating any of the products, it is the sole responsibility of the buyer who shall assume any consequences thereof, whether direct or indirect, and whatsoever its nature, and the seller makes no warranties in respect thereof.

Shelf lives are given as guidance only. Many chemicals will remain as per their certificates of conformity indefinitely if stored properly. Other chemicals are naturally unstable or may react with moisture / air once opened. It is the responsibility of the buyer to understand the nature of the chemicals they are storing and the best practice for storage.

This is a computer generated document and therefore is not signed.

Supplier of Fine & Bulk Chemicals

245 Southtown Road, Great Yarmouth, Norfolk, NR31 0JJ
 t: 01493 444 434 e: sales@abbeychemicals.co.uk w: www.abbeychemicals.co.uk
 Abbeychem Ltd. Company No: 02243621 VAT No: 496 8747 66 Environment Agency License CBDU182210



Chemical Business Association



Environment Agency



Product Specification

Page 2 of 2

Zinc Oxide USP

Physical Properties (Typical)

Description	Results	Reference Method
Identification A	Pass	USP 40
Identification B	Pass	USP 40
Alkalinity	Pass	USP 40
CO ₃	Not Present	USP 40
Colour of Solution	Colourless	USP 40

Uses: Pharmaceutical and chemical industries, stearates, phosphates, antiseptics, soaps, ointments, animal feed, paintings, pigments, ceramics, adhesives, plastics, tires, rubber additives, ferrites, varistors, catalysts, ferrites, polymers, among others

Packing: 25 kg bags

Storage: Keep in original packaging, tightly closed and dry in a cool, well-ventilated area. Away from sunlight, heat and incompatible materials such as acids and bases.

Quality Control

February 21

The specification above has to be considered as technical information, it is presented in good faith, but no warranty is given. The above information does not release the customer from making their own controls and checks upon receipt of the product.

In view of the great variety of possible applications, no assurance is given of the suitability of the product for any particular purpose. Furthermore, since Abbey Chemicals as a material supplier is unable to exercise any control over the use of the products, including designing, testing, specifying a compound or product incorporating any of the products, it is the sole responsibility of the buyer who shall assume any consequences thereof, whether direct or indirect, and whatsoever its nature, and the seller makes no warranties in respect thereof.

Shelf lives are given as guidance only. Many chemicals will remain as per their certificates of conformity indefinitely if stored properly. Other chemicals are naturally unstable or may react with moisture / air once opened. It is the responsibility of the buyer to understand the nature of the chemicals they are storing and the best practice for storage.

This is a computer generated document and therefore is not signed.

Supplier of Fine & Bulk Chemicals

245 Southtown Road, Great Yarmouth, Norfolk, NR31 0JJ
 t: 01493 444 434 e: sales@abbeychemicals.co.uk w: www.abbeychemicals.co.uk
 Abbeychem Ltd. Company No: 02243621 VAT No: 496 8747 66 Environment Agency License CBDU182210



Chemical Business Association



Environment Agency

