



Specialized in chemicals

Hefei TNJ Chemical Industry Co.,Ltd.

B911 Xincheng Business Center,
Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 65418695

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: www.tnjchem.com

Technical Data Sheet

Zinc oxide

Product Information

Chemical Name	Zinc oxide
CAS #	1314-13-2
Formula	ZnO
Molecular Weight	81.39
Synonyms	Zinc Oxide
Chemical Structure	



Physical Properties

Melting point, °C .	1975°C
Density @ 20°C, g/cm ³	5.606g · cm ⁻³
Flash point, °C	1436°C

Specification

item	index						
	99.9	99.8	99.7	99.5	99	98	96
Ltems of analysis	99.9	99.8	99.7	99.5	99	98	96
ZnO %≥	99.9	99.8	99.7	99.5	99	98	96
Metal zinc (Zn) %≤	none	none	none	none	0.01	none	none
Lead oxide (Pb) %≤	0.003	0.005	0.037	0.04	0.15	0.18	0.3
Cupric oxide (Cu) %≤	0.0001	0.0001	0.0002	0.0004	0.0004	/	/
Manganic oxide (Mn) %≤	0.0001	0.0001	0.0001	0.0001	0.0001	/	/
Matter insoluble in HCl %≤	0.004	0.006	0.012	0.015	0.05	0.1	0.25
Loss on ignition %≤	0.12	0.2	0.2	0.2	0.2	0.3	0.5
Matter soluble in water %≤	0.01	0.1	0.1	0.2	0.2	0.3	0.3
105 °c volatile %≤	0.06	0.1	0.3	0.4	0.4	0.6	0.8

Specific surface area(m ² /g) %≥	60	55	50	45	40	40	40
Size (um)	20-40	2-20	4-20	4-50	/	/	
Chloride ion,ppm max	0.001		0.0005			0.0005	
Sulphate,ppm max.	0.05		0.005			0.005	
Iron, ppm max.	0.001		0.0005			0.0005	
Heavy metal,ppm max			0.001			0.0005	
Arsenic,ppm max			0.0002			0.0001	

Safety

Zinc oxide is a normal cargo on transportation,.
 Always refer to the Material Safety Data Sheet (MSDS)

Applications

- Mainly used for rubber or cable industry as reinforcing agent and surfactant, and white glue stains and filling agent, used as curing agent in the neoprene
- In the chemical fertilizer industry in feed gas for fine desulfurization
- Mainly used as white pigment, rubber vulcanization agent, organic synthesis catalyst, desulfurization agent, used in electrostatic printing, pharmaceutical, etc
- Used in synthetic ammonia, oil, natural gas chemical industry raw material gas desulfurization
- Used for analysis reagent, benchmark reagents, fluorescent agent and the photosensitive material matrix
- Used in wet electrostatic photocopying, dry transfer printing, laser fax communication, electronic computer records of static electricity and electrostatic plate making
- Used in plastic industry, sunscreen cosmetics series products, special ceramics, the special functional coatings, textile and sanitary processing, etc
- Widely used in synthetic ammonia, methanol and hydrogen production of oil and gas industrial raw materials such as depth desulphurization purification process
- Used as medicine, convergence for making ointment or adhesive plaster

Packaging

25kg per bag
 25mt per 20'container

Storage & Handling

Zinc oxide Please refer to the Materials Safety Data Sheet (MSDS) for the handling methods.

Always refer to the Material Safety Data Sheet (MSDS) for detailed information on handling and disposal.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchant ability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we has been advised of the possibility of such damages.

Hefei TNJ Chemical Industry Co.,Ltd.

B911 Xincheng Business Center
Qianshan Road, Hefei
230022 Anhui
China

Tel : (0086) 551 65418695

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: www.tnjchem.com