

ZnO process

1. American process (Direct method)

ZnO contents: 98.0%,99.0%, 99.5%

Lead contents : 600~2,000ppm

Zinc Oxide 99% Powder / granular	Zinc Oxide 99.5% Powder / granular
<i>Physical properties</i>	<i>Physical properties</i>
Formula ZnO	Formula ZnO
Appearance White powder (slightly yellow)	Appearance White powder (slightly yellow)
Screen Size 99.65 % min. thru. 325 mesh	Screen Size 99.65 % min. thru. 325 mesh
Solubility Insoluble in Water	Solubility Insoluble in Water
<i>Specification</i>	<i>Specification</i>
ZnO 99.0 % min	ZnO 99.5% min
PbO 0.2 % max	PbO 0.12% max
CdO 0.05% max	CdO 0.02% max
CuO 0.008% max	CuO 0.006% max
Metallic Zinc none	Metallic Zinc none
Mn 0.0003% max	Mn 0.0002% max
Insoluble HCl 0.03% max	Insoluble HCl 0.02% max
Loss in ignition 0.6% max	Loss in ignition 0.4% max
Water soluble 0.7% max	Water soluble 0.5% max
Water contents 0.2% max	Water contents 0.2% max.

2.French process (Indirect method)

ZnO contents: 99.7%

Lead contents : 50 ppm

Zinc Oxide 99.7% Powder / granular

Physical properties

Formula	ZnO
Appearance	White powder
Screen Size	99.65 % min. thru. 325 mesh
Solubility	Insoluble in Water

Specification

ZnO	99.7% min
PbO	0.08% max
CdO	0.003% max
CuO	0.001% max
Metallic Zinc	none
Mn	0.0001% max
Insoluble HCl	0.01% max
Loss in ignition	0.2% max

3. Wet process (Zinc Carbonate method).

Zinc Oxide active grade

Physical properties

Formula	ZnO
Appearance	Slight Yellow / white powder
Screen Size	99.65 % min. thru.325 mesh
Solubility	Insoluble in Water

Specification

ZnO	96~98.0 % min POWDER
PbO	0.05 % max
CdO	0.01% max
CuO	0.005% max
Metallic Zinc	none
Mn	0.0002% max
Insoluble HCl	0.02% max
Loss in ignition	0.6% max
Water soluble	0.7% max
Water contents	0.2% max
Surface Area	15~25m ² /g