

SUNZnO-NAS

Chemical Name	Zinc Oxide & n-octyl triethoxysilane	Technical Data Sheet	
INCI Name	Zinc Oxide & Triethoxy caprylylsilane		
CAS No.	1314-13-2 & 2943-75-1	Version No.	9.1
Appearance	White fine powder	Revised date	2022.03.01
Odor	Odorless	UV Filter	

Specification				
	Item	Limit	Test Method	
Uncoated Zinc Oxide				
1	Identity A	Must conforms	USP42 <Zinc Oxide>	SJ-ZNO-TM-02
2	Identity B	Must conforms	USP42 <Zinc Oxide>	SJ-ZNO-TM-04
3	Alkalinity	Must conforms	USP42 <Zinc Oxide>	SJ-ZNO-TM-06
4	Arsenic	Max. 6ppm	USP42 <Zinc Oxide>	SJ-ZNO-TM-08
5	Lead	Must conforms	USP42 <Zinc Oxide>	SJ-ZNO-TM-09
6	Carbonate and Color of solution	Must conforms	USP42 <Zinc Oxide>	SJ-ZNO-TM-05
7	Iron and other heavy metals	Must conforms	USP42 <Zinc Oxide>	SJ-ZNO-TM-10
8	Loss on ignition	Max. 1.0%	USP42 <Zinc Oxide>	SJ-ZNO-TM-03
9	ZnO content	98.0 – 102.0%	USP42 <Zinc Oxide>	SJ-ZNO-TM-04
Coated Product				
10	Appearance	White fine powder	Visual	SJ-SUNZNONAS-TM-01
11	Odor	Odorless	Sensory	
12	Secondary Particle size	Max. 2.0um	USP42 <429>	SJ-SUNZNONAS-TM-02
13	Loss on drying	Max. 1.0%	USP42 <731>	SJ-SUNZNONAS-TM-04
14	Loss on ignition	Max. 4.0%	USP42 <733>	SJ-SUNZNONAS-TM-05
15	Identity	Must conform	USP42 <Zinc Oxide>	SJ-SUNZNONAS-TM-03
16	Assay(%) as coated	95.0 ~ 100.0	USP42 <Zinc Oxide>	SJ-SUNZNONAS-TM-03
17	pH	5.0 – 9.0	USP42 <791>	SJ-SUNZNONAS-TM-06
18	Heavy Metals Pb / As / Sb / Cd	Max. 10 / 1 / 5 / 5 ppm	USP 42 <233>	SJ-SUNZNONAS-TM-07
19	Hg	Max. 1 ppm	KP10<AAS>	SJ-SUNZNONAS-TM-08
Characteristics	SUNZnO-NAS is a nano sized Zinc Oxide treated with an alkyl silane to confer hydrophobicity for better dispersibility with oily media and compatibility with compounding resin.			
& Application				
Retest date	Three years from manufacturing date in a closed container			
Toxicology	The information available on SUNZnO-NAS gives no indication of any risk of toxicity, if the application and the concentrations used are as recommended.			
	(Oral toxicity Rat LD ⁵⁰ >8,437mg/kg for ZnO)			
Material Safety Data Sheet	MSDS is available.			

SUNZnO-NAS

Chemical Name	Zinc Oxide & n-octyl triethoxysilane	Technical Data Sheet	
INCI Name	Zinc Oxide & Triethoxy caprylylsilane		
CAS No.	1314-13-2 & 2943-75-1	Version No.	9.1
Appearance	White fine powder	Revised date	2022.03.01
Odor	Odorless	UV Filter	

Revision History

<i>Version No</i>	<i>Date</i>	<i>Details</i>
9.1	2022.03.01	Extend the Retest period 2 years to 3 years : Extend the retest period based on stability test.