



Zinc oxide
Sulfanilic acid Sodium sulfanilate
Dyestuff

PROFESSIONAL CHEMICAL MANUFACTURE

Milestone Industrial Co., Ltd.



MILSTONE ADVANTAGES



HIGH QUALITY

- High grade zinc oxide with indirect method
- Many grades to meet various customer's need
- Research and development with Tsinghua University



LARGE CAPACITY

- Leader producer of zinc oxide
- 500 MTS Zinc oxide per day
- Ability to provide sufficient supply



STRICT PRODUCT CONTROL

- High grade zinc ingot as material
- Every batch will be tested before packing
- Every batch sample will be keep in lab.



MULTIPLE OF TRANSPORTATION

- Experienced foreign trade staff
- Stable forwarders with suitable price
- Package meet customer's need

ZINC OXIDE

From tires and rubber to plastics and chemicals, zinc oxide is used in products people use every day

Product name	Zinc Oxide
CAS NO.	1314-13-2
EINECS NO.	215-222-5
Molecular formula	ZnO
Density	5.606g/cm ³
Molecular weight	81.38
Appearance	White hexagonal crystal or powder

There are eight grades zinc oxide powder in MST

- Rubber grade zinc oxide
- Zinc salt grade zinc oxide
- Electronic grade zinc oxide
- Soft magnetic grade zinc oxide
- Paint grade zinc oxide
- Cosmetic grade zinc oxide
- Fertilizer grade zinc oxide
- Feed grade zinc oxide

Rubber grade zinc oxide

Used in the production of tires, cables, conveyor belts, rubber, tape, rubber sealing materials, latex and plastic products



Salt zinc grade zinc oxide

Widely used in the production of organic and inorganic zinc salts such as zinc stearate, zinc bromide, zinc borate, phosphating solution, the configuration of electroplating solution and the petroleum industry



Electronic grade zinc oxide

Mainly used for manufacturing lightning arrester valve for power industry and sub-resistor in electronic industry, etc.



Soft magnetic grade zinc oxide

Mainly used in the electronics industry to manufacture deflection cores and other zinc-magnesium ferrite cores.



Paint grade zinc oxide

Used in the production of high-grade paints, coatings, paint intermediates and pigments.



Cosmetic grade zinc oxide

Used in the production of cosmetics, skin care products and cosmetic additives.



Fertilizer grade zinc oxide

Used in the production of zinc-containing compound fertilizer and water fertilizer




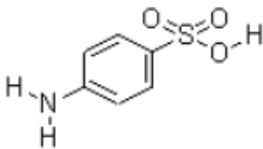
Feed grade zinc oxide

It is suitable for zinc supplement in various types of feed for poultry, livestock and fishing.



Standard: GB/T3185-2016			
Item	Type1	Type2	Type3
Zinc oxide % \geq	99.7	99.7	99.5
Metal content(as dry)% \leq	none	none	0.008
Insoluble Matter in Hc % \leq	0.006	0.008	0.03
Loss on ignition % \leq	0.2	0.2	0.25
Residue on sieve(45um) % \leq	0.1	0.15	0.2
Water soluble matter % \leq	0.1	0.1	0.15
Volatile matter in 105°C % \leq	0.3	0.4	0.5
Lead(pb) % \leq	0.008	0.05	0.1
Copper(Cu) % \leq	0.0002	0.0004	0.0007
Manganese(Mn) % \leq	0.0001	0.0001	0.0003
Cadmium(Cd) % \leq	0.002	0.005	0.01
Iron(Fe) % \leq	0.005	0.01	—

SULFANILIC ACID

Item	Standard	Picture
Product name	Sulfanilic acid	
CAS NO.	121-57-3	
EINECS No.	204-482-5	
Molecular Weight:	173.18648	
Molecular formula	C ₆ H ₇ NO ₃ S	
Molecular structure		

Sulfanilic acid Uses

1. Sulfanilic acid (SNA) is a product widely used in the formation of optical brightener for paper industry, It is also one important dyes intermediates
2. SNA is also used in agriculture pesticide to proof wheat rust. And it one ideal intermediary in spices, food pigment, medicine, building materials, etc

Sulfanilic acid specification

Item	Standard
Appearance	White Powder
Purity	99% min
Free Aniline	0.01% max
Moisture	0.3% max
Water insoluble	0.1% max

SODIUM SULFANILATE

Item	Standard	Picture
Product name	Sodium Sulfanilate	
CAS NO.	515-74-2	
EINECS No.	208-208-5	
Molecular Weight:	195.17	
Molecular formula	C ₆ H ₆ NNaO ₃ S	

Sodium sulfanilate uses

Sodium sulfanilate is an important dye intermediate. It is widely used in optical brightener. This market is very large. More than 50% sodium sulfanilate exported by MST was used in optical brightener. Sodium sulfanilate is also used in acid dyes, direct dyes, reactive dyes.

Today i will introduce other use of sodium sulfanilate.


































Sodium sulfanilate Specification

Item	Standard
Appearance	pink or light rosy crystal
Purity	97% min
Free Aniline	0.01% max
Moisture	0.3% max
Water insoluble matter	0.2% max

SULPHUR DYES

Item	Color sample	Name of dyes	C.I.NO(sulphur)
1		Sulphur Blue BRN	B-7
2		Sulphur Dark Blue 3R	B-5
3		Sulphur Sky Blue CV	B-15
4		Sulphur Blue BBF	B-13
5		Sulphur Bed LGF	R-14
6		Sulphur Black BN	B1-1
7		Sulphur Brill Yellow G	Y-9
8		Sulphur Dark Broen GD	Br-4
9		Sulphur Bordeaux 3B	R-6
10		Sulphur light Yellow GC	Y-2
11		Sulphur light Yellow GR	Y-2
12		Sulphur Yellow Brown 5G	Br-10
13		Sulphur Yellow Brown 6G	Br-1
14		Sulphur Brill Green G	G-3
15		Sulphur Light Green G	G-14
16		Sulphur Leather Green 516	
17		Sulphur Olive Green BBK	
18		Sulphur Khaki	

Acid Dyes

ITEM	COLOUR SAMPLE	DYES NAME	STRENGTH	C.I.NO	PACKING
1		Acid Orange II	100%	Acid Orange 7	25Kg/DR
2		Acid Orange 3KL	100%	Acid Orange 67	25Kg/DR
3		Acid Light Yellow G	100%	Acid Yellow 11	25Kg/DR
4		Acid Light Yellow 2G	100%	Acid Yellow 17	25Kg/DR
5		Acid Yellow MT	100%	Acid Yellow 36	25Kg/DR
6		Acid Yellow MT	CONC 150%	Acid Yellow 36	25Kg/DR
7		Acid Yellow A4R	200%	Acid Yellow 199	25Kg/DR
8		Acid Yellow 4R	200%	Acid Yellow 219	25Kg/DR
9		Acid Blown DR	100%	Acid Brown 75	25Kg/DR
10		Acid Blown SR	100%	Acid Brown 348	25Kg/DR
11		Acid Red G	100%	Acid Red 1	25Kg/DR
12		Acid Red B	100%	Acid Red 14	25Kg/DR
13		Acid Red 3R	100%	Acid Red 18	25Kg/DR
14		Acid Red RS	200%	Acid Red 114	25Kg/DR
15		Acid Red F-2R	100%	Acid Red 151	25Kg/DR
16		Acid Red 2BS	200%	Acid Red 266	25Kg/DR
17		Acid Red N-5BL	200%	Acid Red 299	25Kg/DR
18		Acid Black 10B	100%	Acid Black 1	25Kg/DR
19		Acid Black 10B	120%	Acid Black 1	25Kg/DR
20		Acid Nigrosine	100%	Acid Black 2	25Kg/DR
21		Acid Black MB	200%	Acid Black 29	25Kg/DR
22		Acid Black NT	200%	Acid Black 94	25Kg/DR
23		Acid Black L-DN	150%	Acid Black 172	25Kg/DR
24		Acid Black L-DN	150%	Acid Black 194	25Kg/DR
25		Acid Black BNG	180%	Acid Black 210	25Kg/DR
26		Acid Black ATT	100%	Acid Black	25Kg/DR
27		Acid Black ATT	130%	Acid Black	25Kg/DR
28		Acid Black ET	CONC 200%	Acid Black	25Kg/DR
29		Acid Black ER	CONC 200%	Acid Black	25Kg/DR
30		Acid Green A	100%	Acid Green 20	25Kg/DR
31		Acid Blue A	100%	Acid Blue 7	25Kg/DR
32		Acid Blue N2G	150%	Acid Blue 40	25Kg/DR
33		Acid Blue 5R	120%	Acid Blue 113	25Kg/DR

DIRECT DYES

NO.	Color sample	Dyes name	Strength	International Numbering	Packing
1		Direct yellow R	150%	Direct Yellow 11	25Kg/DR
2		Direct frozen yellow GX	100%	Direct Yellow 12	25Kg/DR
3		Direct Orange S	100%	Direct Orange 26	25Kg/DR
4		Direct Orange 2GL	200%	Direct Brown 39	25Kg/DR
5		Direct yellowish-brown D3G	100%	Direct Brown 1	25Kg/DR
6		Direct deep brown M	100%	Direct Brown 2	25Kg/DR
7		Direct red brown MN	100%	Direct Brown	25Kg/DR
8		Direct Bordeaux B	100%	Direct Red 13	25Kg/DR
9		Direct acid proof scarlet 4BS	100%	Direct Red 23	25Kg/DR
10		Direct red 4BE	100%	Direct Red 28	25Kg/DR
11		Direct pink 12B	100%	Direct Red 31	25Kg/DR
12		Direct fast red F3B	150%	Direct Red 80	25Kg/DR
13		Direct green B	100%	Direct Green 6	25Kg/DR
14		Direct blue 2B	100%	Direct Blue 6	25Kg/DR
15		Direct lake blue 5B	100%	Direct Blue 15	25Kg/DR
16		Direct fast blue B2RL	100%	Direct Blue 71	25Kg/DR
17		Direct light turquoise blue GL	100%	Direct Blue 86	25Kg/DR
18		Direct copper blue 2B	100%	Direct Blue 151	25Kg/DR
19		Direct ash D	100%	Direct Black 17	25Kg/DR
20		Direct fast black G	100%	Direct Black 19	25Kg/DR