

*THE WORLD
BECOMES MORE WONDERFUL
BY US*



ALUMINIUM PIGMENT



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Sunrise 旭阳®
aluminium pigments

COMPANY PROFILE

Sunrise was established in 2002, which is a state-level high- tech enterprise in China with R&D, production and sales of aluminium pigment, bronze powder and fine spherical aluminium powder, with a production capacity of 12000 tons aluminium pigments,1500 tons bronze powder and 10000 tons fine spherical aluminium powder annually. Sunrise owns 12 sales offices all over the country and one Metal Slurry Engineering Technology Research Center, now we ranked in the top 3 in China aluminium pigments industry.

Sunrise had passed through ISO9001- 2008 Quality Management System and ISO14001- 1996 Environment System certifications. With a professional R&D team, cooperating with Science and Technology University of China, which insure Sunrise advanced technology in aluminium pigments industry. Sunrise products well sold to European, America, the Middle East, Southeast of Asia and many other countries and regions.

On the basis of “Professional, Realistic, Combat, Innovative”, Sunrise keeps developing new business and new markets. Rely on professional quality, complete sales service systems, thoughtful and timely technical support, Sunrise are looking forward to becoming your most trustworthy cooperation partner!



QUALIFICATION HONOR



ISO9001: 2008



OHSAS18001: 2007



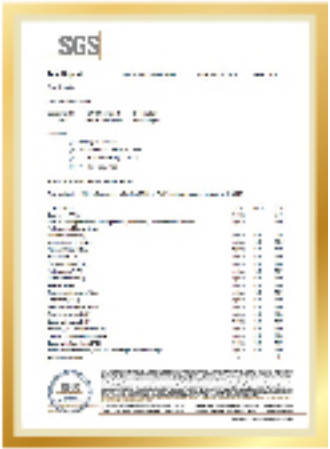
ISO14001: 2004



FDA



PAHS



REACH



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02-Aluminium Powder

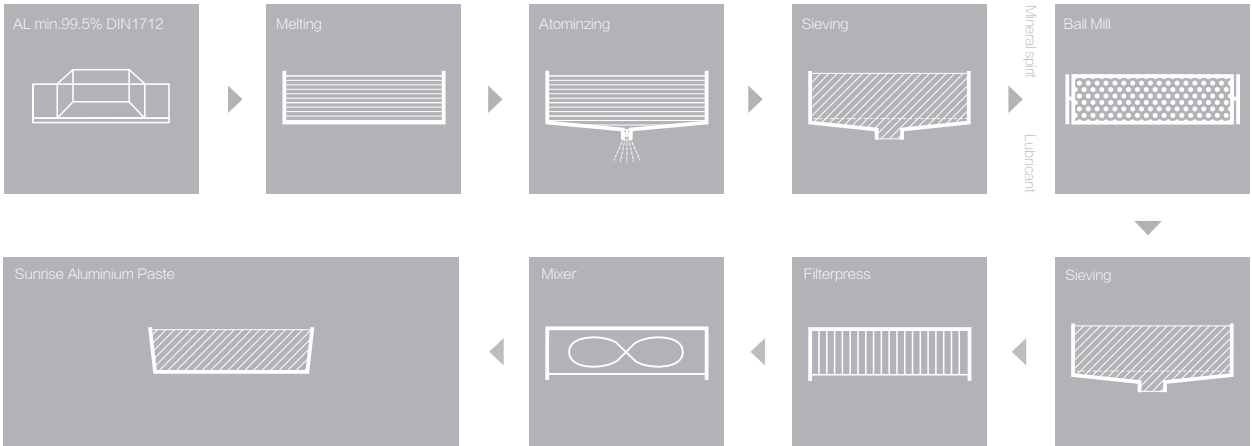
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TECHNOLOGY CENTER & WORKSHOP



The establishment of quality control system , causes the company quality control more systematization, the scientization and institutionalization. In order to deepen the quality control, the company unifies the metal pigment production craft the characteristic and the routinization request, from source strict quality control,thus has safeguarded the production craft stability.Advanced, science quality control way, strict, comprehensive quality control request,the advanced quality instrumentation, the formidable performance test management troop, guarantees enables the corporate growth strategic planning smoothly to impement.

THE MANUFACTURING PROCESS OF ALUMINIUM PASTES



01-ALUMINIUM PASTE



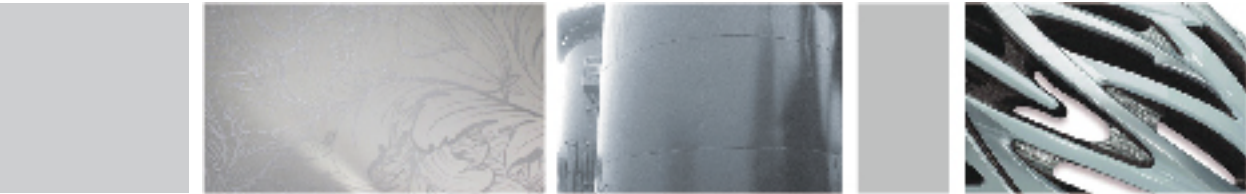
01-1

Non-Leafing
Standard

Characteristics
With very fine particle size, narrow distribution, smoothness, and remarkable hiding power, the series contribute not only good brightness, but also perfect fine and white surface effect.

Application
Mainly used in automotive refinish, motorcycle, toy, general industiral coatings, marine coatings, printing inks, etc.

Grade	Non-Volatile Content (±2 %)	D50 Value (±2 µm)	Screen Analysis <45µm min. (%)	Specific Gravity approx. g/cm³	Solvent
302S	65	2	99.9	1.5	MS/SN
305S	65	5	99.9	1.5	MS/SN
307S	65	7	99.9	1.5	MS/SN
309S	65	9	99.9	1.5	MS/SN
230G	65	30	98.0	1.5	MS/SN
219G	65	19	98.5	1.5	MS/SN
218G	65	18	99.9	1.5	MS/SN
217G	65	17	99.9	1.5	MS/SN
215G	65	15	99.9	1.5	MS/SN
214G	65	14	99.9	1.5	MS/SN
213G	65	13	99.9	1.5	MS/SN
211G	65	12	99.9	1.5	MS/SN
309NS	65	9	99.9	1.5	MS/SN
215NS	65	15	99.9	1.5	MS/SN



01-2

Non-Leafing

Metallic Sparkle

Characteristics

The series are made of high pure raw material, performing excellent metallic and sparkle effect.

Application

They are mainly used in plastic coatings, automotive, motorcycle, helmet and high quality industrial coatings.

Grade	Non-Volatile Content (±2 %)	D50 Value (±2 μm)	Screen Analysis			Specific Gravity approx. g/cm ³	Solvent
			<100μm min.(%)	<60μm min.(%)	<45μm min.(%)		
655S	70	55	99.0	--	--	1.4	MS/SN
652S	70	52	99.0	--	--	1.4	MS/SN
650S	70	50	99.0	--	--	1.4	MS/SN
645S	70	45	--	99.0	--	1.4	MS/SN
642S	70	42	--	99.0	--	1.4	MS/SN
636S	70	36	--	99.0	--	1.4	MS/SN
632S	70	32	--	99.0	--	1.5	MS/SN
628S	70	28	--	--	99.0	1.5	MS/SN
624S	70	24	--	--	99.0	1.5	MS/SN
616S	70	16	--	--	99.9	1.5	MS/SN
585G	70	85	98.5	--	--	1.5	MS/SN
568G	70	68	98.5	--	--	1.5	MS/SN
560G	70	60	98.5	--	--	1.5	MS/SN
557G	70	57	99.0	--	--	1.5	MS/SN
540G	70	40	--	98.5	--	1.6	MS/SN
535G	70	35	--	99.0	--	1.5	MS/SN
532G	70	32	--	99.0	--	1.5	MS/SN
530G	70	30	--	--	--	1.5	MS/SN
523G	70	23	--	--	99.5	1.5	MS/SN
520G	70	20	--	--	99.5	1.5	MS/SN

01-3

Non-Leafing

Silver Dollar

Characteristics

The series get very centralized distribution of particle size, which perform both excellent whiteness and brightness. Further more, it shows metallic effect like silk and chromed.

Application

They are suitable for high-end automotive OEM, refinish and plastic coatings, printing inks etc.

Grade	Non-Volatile Content (±2 %)	D50 Value (±2 μm)	Screen Analysis <45μm min. (%)	Specific Gravity approx. g/cm ³	Solvent
905S	68	5	99.9	1.5	MS/SN
908S	68	8	99.9	1.5	MS/SN
910S	68	10	99.9	1.5	MS/SN
805B	68	5	99.9	1.5	MS/SN
806B	68	6	99.9	1.5	MS/SN
808B	68	8	99.9	1.5	MS/SN
810B	68	10	99.9	1.5	MS/SN
812B	68	12	99.9	1.5	MS/SN
815B	68	15	99.9	1.5	MS/SN
818B	68	18	99.9	1.5	MS/SN
820B	68	20	99.9	1.5	MS/SN
721M	70	21	99.9	1.5	MS/SN
725M	70	25	99.9	1.5	MS/SN



Leafing

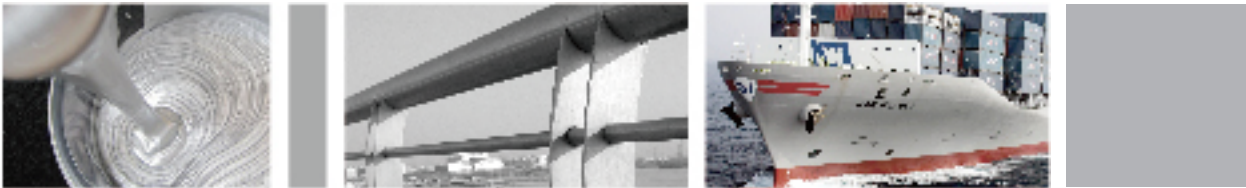
Characteristics

The series have outstanding floatage, brightness and excellent water coverage, which come into chromal effect in low acid resin system . Besides, it can well reflect light and heat.

Application

They are mainly used in printing inks, reflecting coatings, anti-corrosive coatings etc..

Grade	Non-Volatile Content (±2 %)	D50 Value (±2 μm)	Screen Analysis <45μm min.(%)	Leafing Value min. (%)	Solvent
105S	65	5	99.9	85	MS/HA
107S	65	7	99.9	85	MS/HA
115S	65	15	99.9	90	MS/HA
019G	65	19	99.0	90	MS/HA
016G	65	16	99.9	70	MS/HA
015G	65	15	99.9	80	MS/HA
010G	65	10	99.9	80	MS/HA
008G	65	8	99.9	80	MS/HA



Water Based

Characteristics

Water based aluminium pigment, also known as aqueous aluminium paste, developed with the development of aqueous coatings. Aluminium is a lively amphoteric metallic element and easy to react with water, acid and alkali. It should take special surface treatment when add in aqueous resin system. Among the market the methods of aqueous aluminium paste can be divided into 4 categories: 1. Add corrosion inhibitor; 2. Chromic acid or chromate passivation; 3. Silica coating method; 4. Inorganic and organic double-coated or interpenetrating networks method (IPN). These methods have different advantages and disadvantages. Along with the higher requirements for environmental protection, the last two methods will be used more and more.

Application

The aqueous aluminium paste are widely used in aqueous automotive coatings, furniture and other decorative paint, cosmetics, food packaging, leather and cloth, children's toys, etc.

Grade	Non-Volatile Content (±2 %)	D50 Value (±2 μm)	Screen Analysis		Solvent
			<90μm min. (%)	<45μm min. (%)	
A812	60	12	--	99.5	IPA/ n-PA
A218	60	18	--	99.5	IPA/ n-PA
A658	60	58	99.0	--	IPA/ n-PA
A630	60	30	99.0	--	IPA/ n-PA
WB812	60	12	--	99.5	IPA/BCS
WB217	60	17	--	99.5	IPA/BCS
WB548	60	48	99.0	--	IPA/BCS

Application guide

- ① Foam slurry several minutes later, stirring slowly and add the aqueous coatingsémulsion, can add some dispersant appropriately to avoid cluster and particle precipitation.
- ② Do not stir it in high speed, in case the high shear force destroy the coating of aluminium pigment; the rotating speed should control in 300 - 800rpm.
- ③ For optimal results, youd better filter the aqueous coating.
- ④ In long- term storage, aluminium paste may generate particles. You can soak it with pure water or glycol ether several minutes,stir it slightly and then will spread out.
- ⑤ Storage: Avoid direct sunlight; after using aluminium paste, seal the drumscover soon.

Resin-coated

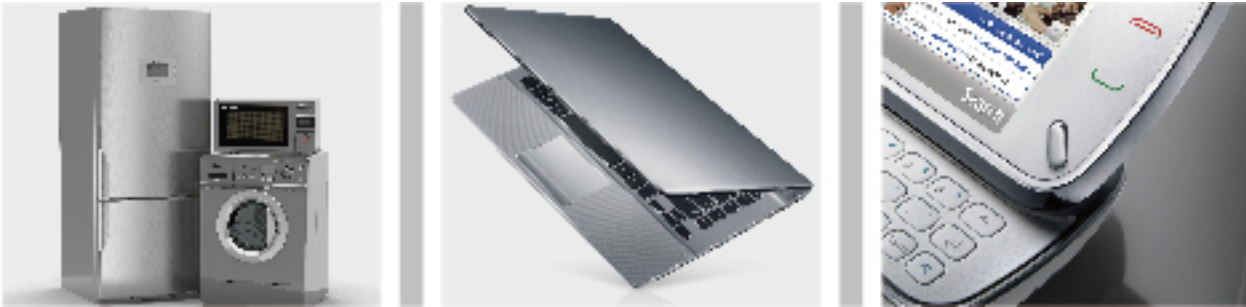
Characteristics

With special processing, each aluminum flake gets polymer coated so that the series perform excellent weatherability, corrosion resistance, voltage resistance and strong adhesion.

Application

Mainly used in high-end industrial decoration, like household electrical appliances, cell phone ,coils, exterior paint and some special inks.

Grade	Non-Volatile Content (±2 %)	D50-Value (±2 μm)	Screen Analysis <45μm min. (%)	Solvent
R910	55	10	99.5	D80
R815	55	15	99.5	D80
R818	55	18	99.5	D80
R630	55	30	99.5	D80
R532	55	32	98.0	D80
R645	55	45	98.0	D80



Vacuum Metallized Pigment

Characteristics

VMP is made by special process.The surface of aluminium is smooth and thin but diameter- thickness ratio is very large. Its brightness and hiding power are both excellent, thus, only small quantity will bring perfect performance of chromium plating, which makes your cost more economical.

Application

The product is mainly used in paints for automotive enamel, wheel hub, bicycle, glass and plastics, as well as ink for cigarette and wine mark, nail polish, toy paint, crafts paint, gravure ink, flexo ink and many other industries. Moreover imitating electroplate aluminium paste can also be substituted for electroplate, to avert pollution.

Grade	Non-Volatile Content (±1 %))	D50 Value (±2 μm)	Screen Analysis <45μm min. (%)	Solvent
M9633	10	3	99.9	PMA
M9634	10	4	99.9	PMA
M9635S	15	5	99.9	PMA
M9635	10	5	99.9	PM
M9636	10	6	99.9	PMA/IPA
M9638	10	8	99.9	PMA

Package
Packing into 1kg and 5kgs metal cans.
Suggestion of dosage
Proportion of aluminium paste in colored primer paint is 1%- 3%.
Proportion of aluminium paste in pure silver primer pain is 2%- 4%.
Proportion of aluminium paste in single metal flitter primer pain is 2%- 6%.



Colorful Dynamic Aluminium Pigment

Application
Specialized for spray paints in any base material with smooth surface,like vehicles,household appliances,toys,cellphones,artware, packagings (cosmetics,alcohols,cigarette packets),home decorations,sports equipments(bicycles,fishing rods),leathers,wallpapers and anti-fake fields. And also for printing inks.

Grade	D50 (μm)	Non-Volatile Content(%)	Effect	Covering Power
L-1020	20	20	good rainbow effect	Good

Application
The inks made with laser paste can be used in various of transparent base materials(glasses,PET,PC,PMMA,PVC etc.),widely used on the surface of the panel of household appliances,home glass sliding doors,mobile panels,and anti-fake fields.

Grade	(μm)	Non-Volatile Content(%)	Effect	Covering Power
L- 2030	30	20	bright rainbow sparkle effect	Excellent
L- 6010	10	20	fine and smooth appearance	Good
L- 6020	20	20	good rainbow effect	Good
L- 6035	35	20	bright rainbow sparkle effect	Excellent
L- 8020	20	20	excellent rainbow effect	Good

Recommended dosage is 8-20% accroding to the particle size, the the finer, the more dosage, and the vice versa.
The spraying effect is connected with the smoothness of the surface, the smoother, the better.The hiding power is influenced by the coating process.
10μm 15-20%, resin and solvent 80-85%, screen printing 300 mesh
20μm 10-15%, resin and solvent 85-90%, screen printing 250 mesh
30-35μm 8-14%, resin and solvent 86-92%, screen printing 200 mesh
10μm laser aluminium paste 15-20%, resin and solvent 80-85%, silk-screen 300 mesh.
20μm laser aluminium paste 10-15%, resin and solvent 85-90%, silk-screen 250 mesh.
30- 35μm laser aluminium paste 8-14%, resin and solvent 86-92%, silk-screen 200 mesh.



Pelletized Aluminium Pigment

Characteristics
This series are processed by removing solvent, then added with PE-Wax (Or other resins) and additives to get a pellet size of about 1.8*8mm by extrusion.Its main properties: excellent dispersity, hiding power in plastics, pollution free, low-dusting, low odor, perfect stability and universality. Aluminum content: 70-80%
PE-Wax or resin: 20-30%
Few solvent.

Application
Specially for plastic masterbatches, injection, molding etc.

Grade	Non-Volatile Content (±2 %)	D50 Value (±2 μm)	Screen Analysis		Carrier
			<90μm min. (%)	<45μm min. (%)	
TA5103	80	3	--	99.9	PE WAX
TA5105	80	5	--	99.9	PE WAX
TA5107	80	7	--	99.9	PE WAX
TA5110	80	10	--	99.9	PE WAX
TA5112	80	12	--	99.9	PE WAX
TA5116	80	16	--	99.9	PE WAX
TA5205	80	5	--	99.9	PE WAX
TA5206	80	6	--	99.9	PE WAX
TA5200	80	6	--	99.9	PE WAX
TA5210	80	10	--	99.9	PE WAX
TA5212	80	12	--	99.9	PE WAX
TA5316	80	16	--	99.9	PE WAX
TA5318	80	18	--	99.9	PE WAX
TA5322	80	22	--	99.9	PE WAX
TA5330	80	30	--	98.0	PE WAX
TA5342	80	42	99.0	--	PE WAX
TA5355	80	55	98.5	--	PE WAX

02- ALUMINIUM PIGMENT POWDER



02-1

Non-Leafing Standard

Characteristics
Aluminium pigment powder has flake shape particles. The particles float at the surface of finished coatings, forming a shield to against corrosive gases and liquids, it provide continuous and compact surface of coated articles. Aluminium pigment encapsulated with material of strong weatherability can endure long time corrosion of sun light, gas and rain, thus it provides excellent protection to coatings.

Application
Mainly used in various of powder coating, masterbatches,coatings, inks, leather and so on, apply to outdoor coatings.

Package
10kg in iron drum

Grade	Non-Volatile Content %(±2)	Sieve Residue (44µm)< = %	D50- Value (µm)	Surface Treatment	Leafing Non- leafing
210	95	0.3	10	SiO ₂	NL
212	95	0.3	12	SiO ₂	NL
212BP	95	0.3	12	SiO ₂	NL
215	95	0.5	15	SiO ₂	NL
218	95	0.5	18	SiO ₂	NL
513	96	0.3	13	SiO ₂	NL
516	96	0.5	16	SiO ₂	NL
528	96	1	28	SiO ₂	NL
542	96	1(124 µm)	42	SiO ₂	NL
554	96	1(124 µm)	54	SiO ₂	NL
718	96	0.5	18	SiO ₂	NL
730	96	1	30	SiO ₂	NL
738	96	1(60 µm)	38	SiO ₂	NL
748	96	1(124 µm)	48	SiO ₂	NL
755	96	1(124 µm)	55	SiO ₂	NL



02-2

Non-Leafing

For Protective Coatings

Properties

This series of aluminium pigments powder is designed for powder coatings industry, within the squeeze- type products.

Application

Mainly used in hammer powder coating.

Package

20kg in iron drum

Grade	Non-Volatile Content % (±2)	Sieve Residue (44µm) < = %	D50- Value (µm)	Surface Treatment	Leafing Non- leafing
410	80	0.3	10	SiO ₂	NL
413	80	0.3	13	SiO ₂	NL

02-3

Leafing

Characteristics

It appears as flake particles and after well dispersed on carrier, particles connect, fill up each other to get continuous and compact coating, which performs good hiding and shielding power to prevent the corrosion from moisture, gas and sunlight etc. on substrates.

Application

Typically applied to powder coatings, printing inks, masterbatches, textile etc.

Package

10kg in iron drum

Grade	Non-Volatile Content (±2 %)	D50 Value (±2 µm)	Screen Analysis		Surface Treatment
			<90µm min. (%)	<45µm min. (%)	
L16S	90	6	--	99.0	SiO ₂
L15G	90	13	--	99.0	SiO ₂

WARM TIPS



Notes

- Please test the product quality before using.
- Avoid any conditions that will suspend or float powder particles in the air, keep away from high temperature, fire during using process.
- Tighten the drums cover of the product soon after using it, storage temperature should be at 15 °C - 35 °C.
- Store in cool, ventilated, dry place. After long time storage, the pigment quality might be changed, please re-tested before using.



Emergency measures

- Once a fire breaks out , please use chemical powder or the fire-resistant sands to put it out.No water should be used to put out the fire.
- If the pigment enters eyes by accident , should wash them with clean water for at least 15minutes and turn to doctor for consultation in time.



Waste treatment

- Small amount of discarded aluminium pigment can only be burnt in a safe place and under the supervision of authorized persons.