

TSA SERIES MATTING AGENT (Sol-gel Silica)

High efficiency:

Good transparency:

Easily added and dispersed:

TSA series main application:

High-grade furniture coatings

High-grade decorative coatings

Film coating, such as decoration film, man-made or natural leather

Coil coating

Leather

Product Specifications

Type Item	TSA-220	TSA-230	TSA-250	TSA-260	TSA-270	TSA-220L	TSA-230L	TSA-250L	TSA-260L	TSA-270L
Content of SiO ₂ (dry basis) %	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
Porosity ml/g	1.8~2.0	1.8~2.0	1.8~2.0	1.8~2.0	1.8~2.0	1.8~2.0	1.8~2.0	1.8~2.0	1.8~2.0	1.8~2.0
Oil factor g/100g	280~ 330	270~ 320	260~ 310	250~ 300	250~ 300	280~330	270~320	260~310	250~300	250~300
ParticleSize(Malvent),um	2~2.5	3~3.5	4~4.5	5~5.5	6~7	2~2.5	3~3.5	4~4.5	5~5.5	6~7
Loss on drying (105℃, 2Hrs), %	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5
Ignition loss(1000℃, 2Hrs), %	≤7	≤7	≤7	≤7	≤7	≤10	≤10	≤10	≤10	≤10
Whiteness	95	95	95	95	95	95	95	95	95	95
PH(5% liquor)	7	7	7	7	7	7	7	7	7	7
Surface treatment	No	No	No	No	No	Organic	Organic	Organic	Organic	Organic

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TSA series application field

Coating variety	Suggestion
Furniture coating, Decorative Coating	TSA-230、TSA-250、TSA-260、TSA270、TSA-250L、TSA-260L、TSA270L
Coil coating	TSA-260、TSA270、TSA-260L、TSA270L
Leader, leatheroid	TSA-220、TSA230
Thin film coating	TSA-220

Experimental data of dispersion of TSA SERIES high-grade Matting Agent

item \ Type	TSA-220	TSA-230	TSA-250	TSA-260	TSA-270	TSA-220L	TSA-230L	TSA-250L	TSA-260L	TSA-270L
Dispersion time, mins	15	15	15	15	15	15	15	15	15	15
Dispersion speed,r/min	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Dispersion fineness, um	16	20	25	28	30	16	20	25	28	30

Method of Application:

- 1 Recommended dosage of 3% -10%.
- 2 As different formulations and conditions, suggest the user to test and make sure the dosage before using.

Notes;

- 1、 During the handling, using and transportation processes, the necessary measures should be taken to avoid dust. Recommended the stacking height not more than 10 layers, extrusion would affect the dispersion of products. Please extend the dispersion time appropriately.
- 2、 Recommended to use soon after open , prevent moisture affecting the results.

Hongsheng A series matting agent (precipitated silica)

Product Specifications:

Type	A200	A350- I	A350- II	A360	A360
Content of SiO ₂ (dry basis) %	98	98.5	98.5	98.5	98.5
Porosity , ml/g	1.2~1.3	1.6~1.8	1.2~1.3	1.3~1.4	1.3~1.4
Particle Size(Malvent),um	8~10	6~7	4.5~5.0	4.5~5.0	4.0~4.5
Whiteness	>93	>93	>93	>93	>93
Specific gravity,g/ml	2.4	2.4	2.4	2.4	2.4
PH(5% liquor)	7	7	7	7	7
Oil factor g/100g	250~350	280~320	200~280	315	250
Loss on drying (105℃, 2Hrs), %	<5	<5	<5	<5	<5
Ignition loss(1000℃, 2Hrs), %	<7	<7	<7	<7	<7
Surface treatment	No	No	No	No	No

Application and recommended dosage:

Coating system	Type	Benefit	Recommended dosage
Coil coating and industrial coating	A350- I	High performance of dispersion	10~12%
Wood and furniture lacquers and plastic film coating	A350- II A360	Good transparency, Fine and flat	8~10%
Thick paste and atomic dust coating and substrate	A200	Excellent performance of thickening and anti-setting	10~35um:0.25~0.5% 35~75um:0.5~3%

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Specialized Matting agent for coil coatings (sol-gel silica)

Product Specifications

Type Index	TSA-550	TSA-550L	TSA-550KH
Appearance	White loose powder		
Content of SiO ₂ (dry basis), %	99	99	99
Pore volume,ml/g	1.8~2.0	1.8~2.0	1.8~2.0
Oil absorption, g/100g	280~300	260~280	260~280
(Malvent) ,um Particle size (Malvent) ,um	6	6	6
Loss on drying (105℃, 2Hrs), %	3	3	3
Ignition loss (1000℃, 2Hrs), %	4	12	4
pH (5% water)	6-7	6-7	6-7
Surface treatment	No	Organic	Organic

Application

- **Color steel plate, color coil coatings;**
- **Color tile, thinner film coil coatings;**
- **General industrial coatings.**

Usage

- Suggest to add 2 -4% of the general formula
- In different formulas and conditions, users are recommended to determine the best dosage by test before using.

Remark:

TSA-550 is specialized for the coil coating. Korea KCC approved it.
TSA-580/TSA-590 is specialized for the ink-jet printing sorbent.

Matting Agent counter for the other products

Hongsheng chemical corporation	Degussa Enovik	Grace	Gasil Ineos	Japan Fuji Fusil	Japan Tosoh Nipsil	Korea DCC OCI
TSA220						
TSA230			HP230 23D 23DP	SY350	E220A	ML-386D
TSA250		C805			E200A	ML-388
TSA260		C805			E170	ML-389
TSA270			HP870			
TSA220L						
TSA230L		ED20 SY7000				
TSA250L	OK520 OK607	C7		SY256N		ML-388W
TSA260L	OK412	ED30 C906	HP860 UV55C	SY256N		ML-389W
TSA270L	OK500	C906	UV70C HP270			
S-777		C805				
S-776		ED2				
TSA550		ED5	HP210 HP260			
TSA550L		ED50	HP220			
TSA550KH						

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