



谨致友好问候
With compliments

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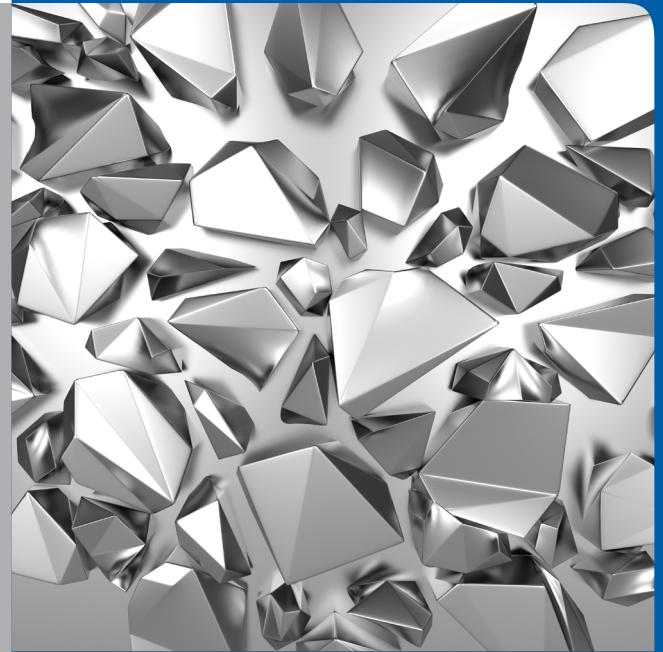
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特殊效果颜料和金属效果油墨
在涂料、塑料和印刷中的应用

Effect Pigments and Metallic Inks
for Coatings, Plastics and Graphic Arts

适用于中国市场
for China

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涂料
Coatings



汽车涂料
Automotive
Coatings



印刷
Graphic
Arts



粉末涂料
Powder
Coatings



塑料
Plastics

Aluminium Pigment Pastes

for Solvent Borne Coating Applications

铝浆颜料

适用于溶剂型涂料



STAPA®

The SILTALLUX® SILTALLIC® products are standard silver metallic aluminium pastes for solventborne paints and coatings. The pastes are specifically developed for the China and Asian markets offering high quality grades with distinctive effect results covering a wide silver colour range.
METALLUX is made in Germany with global standard.

SILTALLUX® SILTALLIC® 是适用于溶剂型涂料的标准铝浆系列，专为中国和亚洲市场开发。系列包括多个高品质规格，提供宽广而优秀的银色效果。

METALLUX 系列在德国制造，满足全球品质要求。

STAPA®

型号/Type	颜料形状 / Pigment shape	非挥发份(颜料)/ Non volatile content (pigment)	溶剂/ Solvent	平均粒径 Average particle size	有机溶剂湿法筛析 / Screen Analysis/wet sieving with organic solvents as rinsing liquid 依据/acc. to DIN 53196 [µm] 不低于 min. [%]				
					< 71	< 63	< 45	< 40	< 25
		%	*	D50 约/approx. [µm]					
SILTALLUX® 8620	银元型 / Silverdollar	70	TE / SA	54	98.5	-	-	-	-
SILTALLUX® 8640		70		38	-	-	-	98.5	-
SILTALLUX® 8755		70		23	-	-	-	-	99
SILTALLUX® 8765		70		21	-	-	-	99	-
SILTALLUX® 8770		70		21	-	-	-	99	-
SILTALLUX® 8775		70		18	-	-	-	-	99.5
SILTALLUX® 8380		65		15	-	-	-	-	99.5
SILTALLUX® 8790		65		12	-	-	-	-	99.5
METALLUX 3580		60		14	-	-	-	99.9	-
SILTALLIC® 8150		玉米片型 / Cornflake		65	25	-	-	-	99
SILTALLIC® 8040	60		20	-	-	-	98.5	-	
SILTALLIC® 8180	65		17	-	-	-	99.9	-	
SILTALLIC® 8080	60		13	-	-	99.9	-	-	
SILTALLIC® 8090	60		11	-	-	99.9	-	-	

* TE = 200#溶剂汽油 / Mineral spirit
SA = 石脑油溶剂 / Solvent naphtha

Aluminium Pigment Pastes

for Solvent Borne Coating Applications

铝浆颜料

适用于溶剂型涂料



STAPA® SILTA STAR

STAPA® SILTA STAR aluminium silver dollar pigments are with pronounced high silver / aluminium effect and strong flip-flop (light - dark effect). They are ideal for the coating market with desire to high end silver finishes.

STAPA® SILTA STAR 银元型铝浆具有强烈的银色金属效果和出色的随角异色特性，特别适用于需求高端银色表面效果的涂料应用场合。

—silvershine®

The extremely thin silver dollar pigments of SILVERSHINE are characterized by a particularly fine and homogeneous texture and a narrow particle size distribution. This is exactly what creates the characteristic appearance of SILVERSHINE: extremely brilliant and with a striking flop - or almost structure less, from a soft metallic shimmer to noble sparkle effects.

SILVERSHINE 是极薄的银元型铝颜料，粒径特小且分布狭窄，表面均匀光滑。因此该系列金属感和随角异色性极强，从柔和到闪烁，效果细腻。

STAPA® SILTA STAR

型号/Type	颜料形状 / Pigment shape	非挥发份(颜料)/ Non volatile content (pigment)	溶剂/ Solvent	平均粒径 Average particle size	有机溶剂湿法筛析 / Screen Analysis/wet sieving with organic solvents as rinsing liquid	
					依据/acc. to DIN 53196 [µm]	不低于 min. [%]
		%	*	D50 [µm] / approx. [µm]	< 45	< 25
618	银元型 / Silverdollar	76	TE / SA	18	-	99.0
615		75		17	99.9	-
613		70		13	99.8	-
612		70		13	-	99.9
610		63		11	-	99.5

SILVERSHINE

型号/Type	颜料形状 / Pigment shape	非挥发份(颜料)/ Non volatile content (pigment)	溶剂/ Solvent	平均粒径 Average particle size	有机溶剂湿法筛析 / Screen Analysis/wet sieving with organic solvents as rinsing liquid	
					依据/acc. to DIN 53196 [µm]	不低于 min. [%]
		%	*	D50 约/ approx. [µm]	< 45	< 25
422	薄元型 / Platin Dollar	70	TE / SA	26	-	99.5
418		70		22	-	99.5
412		60		14	-	99.9
408		60		11	-	99.9

* TE = 200#溶剂汽油 / Mineral spirit
SA = 石脑油溶剂 / Solvent naphtha

Aluminium Pigment Pastes

for Solvent Borne Coating Applications

铝浆颜料

适用于溶剂型涂料



STAPA® CAN

On account of their high barrier protection properties and their metallic appearance, very fine aluminium pigments are used for interior can coatings. The STAPA® CAN aluminium pigment pastes with their narrow particle size distribution are ideally suited for can coatings applications. Thanks to their excellent hiding power and processing qualities, STAPA® CAN provides an exceptional price-performance ratio.

STAPA® CAN 具有屏障保护特性，金属外观细腻，粒径分布狭窄，因而十分适合用于罐听内涂，得益于其优秀的遮盖力和施工性能，该产品具有极高的性价比。

STAPA® CAN

型号/Type	颜料形状 / Pigment shape	非挥发份(颜料)/ Non volatile content (pigment)	溶剂/ Solvent	平均粒径 Average particle size	有机溶剂湿法筛析 / Screen Analysis/wet sieving with organic solvents as rinsing liquid 依据/acc. to DIN 53196 [µm] 不低于 min. [%]	
		%	*	D50 约/approx. [µm]	< 45	< 25
0600	玉米片型 / Cornflake	60	TE	6	-	99.9

* TE = 200#溶剂汽油 /Mineral spirit

Chemical Resistant Aluminium Pigment Pastes

for Solvent Borne Coating Applications

高耐化学性铝浆颜料

适用于溶剂型涂料



STAPA® UCP

Ultra chemical performance aluminium pigments for solvent borne and water borne coating systems

- Especially designed for one-coat applicatios
- Extremely thin, double-coated
- Excellent, extremely pronounced flop
- Smooth, structureless surface
- High brilliance and light reflection
- Outstanding chemical resistance
- Alkaline / Acid resistance (Toyota test!)
- High gassing stability in water borne paint formulations

同时适用于溶剂型和水性体系的超高化学耐性铝浆颜料

- 特别设计用于单涂层应用
- 极薄并经过双层包覆
- 极佳且极显著的随角异色性
- 平滑细腻的表面
- 高金属感高光反射
- 卓越化学耐性
- 高酸碱耐性 (丰田试验!)
- 在水性涂料体系中的高废气稳定性

STAPA® HCP

STAPA® HCP is a well established acrylic encapsulated aluminium pigment series especially designed for single coat plastic and coil coatings. Due to the homogeneous and impermeable polymer layer the pigments show an excellent and unequaled acid and alkaline resistance.

STAPA® HCP 是一系列稳定的丙烯酸包覆铝颜料, 特别为塑料涂料和卷钢涂料的单涂层应用设计。由于聚合物包覆层的均匀性和不渗透性, 颜料表现出无以伦比的优异耐酸碱性能。

STAPA® UCP

型号/Type	颜料形状 / Pigment shape	非挥发份(颜料)/ Non volatile content (pigment)	平均粒径 Average particle size	工业涂料 / Industrial coatings	特点 / Remark
150	银元型 / Silverdollar	25 %	D50 约/ approx. [µm] 15	- 塑料涂料/Plastic coatings - 卷钢涂料/Coil coatings - 轮毂涂料/Wheel coatings - 汽车内饰/Car interior	二氧化硅/聚合物双层包覆极高耐化学稳定性 / SiO ₂ / Polymer encapsulation for very high chemical stability

STAPA® HCP

型号/Type	颜料形状 / Pigment shape	非挥发份(颜料)/ Non volatile content (pigment)	平均粒径 Average particle size	工业涂料 / Industrial coatings	特点 / Remark
4225	银元型 / Silverdollar	55 %	D50 约/ approx. [µm] 22	- 塑料涂料/Plastic coatings - 卷钢涂料/Coil coatings - 轮毂涂料/Wheel coatings - 汽车内饰/Car interior	聚合物包覆 / Polymer coated
4125	银元型 / Silverdollar	40 %	D50 约/ approx. [µm] 14		聚合物包覆 / Polymer coated
6345	银元型 / Silverdollar	60 %	D50 约/ approx. [µm] 35		聚合物包覆 / Polymer coated
6175	银元型 / Silverdollar	50 %	D50 约/ approx. [µm] 20		聚合物包覆 / Polymer coated
6105	银元型 / Silverdollar	40 %	D50 约/ approx. [µm] 14		聚合物包覆 / Polymer coated

推荐 / Recommendation

+ 适合/建议 suitable/recommended

Aluminium Pigment Pastes

for Plastic Applications

溶剂型铝浆颜料

适用于塑料



STAPA®

Our STAPA® WM finds high attraction in plastic applications due to their outstanding odourless characteristic. Our mineral spirit paste provides extreme coverage especially for plastic film applications.

STAPA®WM 铝浆由于其出色的无气味特性，对塑料应用具有很强的吸引力。我们的 200# 溶剂汽油铝浆有极高的遮盖力，特别适合于塑料薄膜应用。

STAPA®

型号/Type	颜料形状 / Pigment shape	非挥发份(颜料)/ Non volatile content (pigment)	溶剂/ Solvent	平均粒径 Average particle size
		%	*	D50 约/approx. [µm]
40-E	玉米片型 / Cornflake	60	TE	6
SILTALLIC 5041	玉米片型 / Cornflake	65	TE	19
WM 40-E	玉米片型 / Cornflake	75	WM	6
WM Chromal V/80	玉米片型 / Cornflake	80	WM	13

* TE = 200#溶剂汽油 / Mineral spirit
WM = 医用白油 / Medical white oil

Aluminium Pigment Pastes

for Solvent Borne Graphic Art Applications



铝浆颜料

适用于溶剂型印刷应用



Established leafing and non-leafing Cornflakes and Silver dollars and Silvershine Premium Effects

- for Flexo & Gravure printing
- low mineral oil content
- possible to be used for indirect food packaging (depending on design)

完善的浮型和非浮型，玉米片型、银元型和 Silvershine 高级效果

- 适用于柔印和凹印
- 低看矿物油含量
- 可用于非直接接触食品包装(取决于设计)

Grade 型号	Colour Shade 色相	Leafing Property 漂浮特性	Pigment Type 颗粒形状	平均粒径 Average particle size D50 [µm] 约 Approx.	非挥发份(颜料)/ Non volatile content (pigment) %	Solvent 溶剂	Application 应用
STAPA® 3000/47	银 / Silver	Leafing / 浮型	Cornflake / 玉米片型	6	65	Mineral oil / 矿物油	Standard effect for offset inks/ 标准型适用于胶印油墨

Grade 型号	Colour Shade 色相	Application 应用			Leafing Property 漂浮特性	Pigment Type 颗粒形状	Average particle size 平均粒径 D50 [µm]	非挥发份(颜料)/ Non volatile content (pigment) %	Solvent 溶剂	DPA Free 不含 DPA	APEO Free 不含 APEO	Mineral Oil Free 不含矿物油	Ingredients Swiss Listed 成分符合瑞士 包装油墨 法令
		Flexo 柔印	Gravure 凹印	Screen 丝印									
Cornflake standard effects, non-leafing and premium non-leafing 玉米片标准型, 非浮型													
ROTOVARIO 800 101	银 / Silver	●	●	-	非浮型 Non-leafing	玉米片型 Cornflake	10	60	EA ¹⁾	●	●	< 0.1%	●
ROTOVARIO 800 901 NPAC	银 / Silver	●	●	-			10	60	NPAC ³⁾	●	●	< 0.1%	●
ROTOVARIO 530 944	银 / Silver	●	●	-			10	65	EA ¹⁾	●	●	< 0.1%	●
ROTOVARIO 501 023	银 / Silver	●	●	-			6.5	65	EA ¹⁾	●	●	< 0.1%	●
ROTOVARIO 501 033	银 / Silver	●	●	-			9	65	EA ¹⁾	●	●	< 0.1%	●
ROTOVARIO 501 022 IF	银 / Silver	●	●	-			10	65	EA ¹⁾	●	●	< 0.1%	●
ROTOVARIO 501 021 IF	银 / Silver	-	●	-	优秀非浮特性 Premium non-leafing		12	65	EA ¹⁾	●	●	< 0.1%	●
Silverdollar effects, non-leafing and optimized non-leafing 银元型, 非浮型													
ROTOVARIO 800 105 NPAC	银 / Silver	●	●	-	非浮型 Non-leafing	银元型 Silverdollar	11	65	NPAC ³⁾	●	●	< 0.1%	●
ROTOVARIO 800 115	银 / Silver	●	●	-			11	65	EA ¹⁾	●	●	< 0.1%	●
ROTOVARIO 800 145	银 / Silver	●	●	-			14	65	EA ¹⁾	●	●	< 0.1%	●
ROTOVARIO 530 001	银 / Silver	-	●	-			15	60	EA ¹⁾	●	●	< 0.1%	●
ROTOVARIO 530 107	银 / Silver	●	●	-			7.5	70	EA ¹⁾	●	●	< 0.1%	●
ROTOVARIO 501 811	银 / Silver	●	●	-			最佳非浮性非浮型 Optimized non-leafing		12	60	EA ¹⁾	●	●
ROTOVARIO 530 809	银 / Silver	●	●	-	优秀银元型 Premium silverdollar		10	60	EA ¹⁾	●	●	< 0.1%	●

1) EA - Ethyl Acetate, 乙酸乙酯

2) PM - Methoxy Propanol, 丙二醇甲醚

3) NPAC - n-Propyl acetate, 乙酸正丙酯

4) IL - Isopropanol, 异丙醇

UV Based Metallic Pigment Pastes

for Graphic Art Applications



UV 金属效果颜料浆

适用于印刷应用



Gold and Silver cornflake effect pigments for the formulation of metallic UV offset, Tower Coater, Flexo and Screen inks. 玉米片型金色和银色颜料, 适合配制胶印、涂布单元用、柔印和丝印 UV 金属油墨。

Grade 型号	Colour Shade 色相	Leafing Property 漂浮特性	Pigment Type 颗粒形状	Average particle size 平均粒径 D50 [µm] 约 Approx.	Non volatile content (pigment) 非挥发份(颜料) %	Solvent 溶剂	BPA Free 不含 BPA	Mineral Oil Free 不含矿物油
UV pastes, Bronze and Silver effects 金色和银色 UV 颜料浆								
ROTOVARIO UV 900 111	Rich Gold / 青金	Leafing	Cornflake / 玉米片型	3.5	75	Acrylate / 丙烯酸	-	•
ROTOVARIO UV 900 113	Pale Gold / 红金	Leafing	Cornflake / 玉米片型	3.5	75	Acrylate / 丙烯酸	-	•
ROTOVARIO UV 900 114	Silver / 银	Non-leafing	Cornflake / 玉米片型	6	55	Acrylate / 丙烯酸	-	< 0.1%

Ultra Brilliant Aluminium Pigment Pastes

for Coating Applications

超亮铝浆颜料

适用于涂料



—silvershine®

SILVERSHINE S and P 1000 series are ECKART's aluminium pigments in ultra thin silver dollar shape. Its structureless appearance in coatings offers extreme bright - dark flop effects. The effect is very close to PVD pigments.

SILVERSHINE S 和 P 1000 系列是爱卡基于极薄银元型颜料的铝浆产品。其细腻的外观特性可在涂料中实现从明到暗的强烈随角异色效果，和 PVD 颜料效果接近。

SILVERSHINE

型号/Type	非挥发份(颜料)/ Non volatile content (pigment)	溶剂 / Solvent *	粒径分布 Particle size distribution			有机溶剂湿法筛析 / Screen Analysis/wet sieving with organic solvents as rinsing liquid	
	%		约/approx. [µm]			依据/acc. to DIN 53196 [µm] 不低于 min. [%]	
			D10	D50	D90	< 40	< 25
S 1500	25	PM	9	16	27	99	-
S 1100	30	TE / SA	6	11	18	-	99.8
P 1000	18	MA	6	12	20	-	99.8

- * TE = 200#溶剂汽油 / Mineral spirit
- SA = 石脑油溶剂 / Solvent naphtha
- MA = 丙二醇甲醚醋酸酯 / Methoxy propyl acetate
- PM = 丙二醇甲醚 / Methoxy propanol

Vacuum Metallized Pigment Dispersions

for Coating and Graphic Art Applications

真空镀铝金属颜料分散体

适用于涂料和印刷应用



METALURE®

METALURE stands for highly brilliant aluminium pigment dispersions. Our PVD (physical vapour deposition) process provides very special effects: from light to dark, from rainbow to extreme mirror like effects.

METALURE 美特亮是具有超高亮效果的铝颜料分散体。PVD 物理气相沉积生产工艺实现了其独特的效果：从白调到暗调，从彩虹效果到极限类镜面效果。

METALURE®	非挥发份(颜料)/ Non volatile content (pigment)	溶剂/ Solvent	平均粒径 Average particle size	涂料 / Coatings	丝网印刷 / Screen Printing	凹版印刷 / Gravure Printing	柔版印刷 / Flexo Printing	特点 / Remarks
型号/Type	%		D50 约/approx. [µm]					
Non Leafing / 非浮型								
L-51007 MA	10	丙二醇甲醚醋酸酯/ Methoxy propyl acetate	7	•	•			白亮 / Light
L-55700	10	丙二醇甲醚醋酸酯/ Methoxy propyl acetate	10	•	•			白亮 / Light
A-41010 BG	10	乙二醇丁醚/ Butyl glycol	10	•	•			中性亮 / Medium
A-61010 BG	10	乙二醇丁醚/ Butyl glycol	10	•	•			黑亮 / Dark
101003 AE	10	乙酸乙酯 / Ethyl Acetate	10	•		•	•	白亮 / Light
101005 AE	10	乙酸乙酯 / Ethyl Acetate	10			•	•	中性亮 / Medium
101008 AE	10	乙酸乙酯 / Ethyl Acetate	10			•	•	黑亮 / Dark
Special Mirror Effects / 特殊镜面效果								
Prismatic H 50550 AE	5	乙酸乙酯、乙醇 / Ethyl Acetate, Ethanol	50	•	•			闪烁彩虹效果 / Sparkle Rainbow Effect
Prismatic H 50720 AE	7	乙酸乙酯、乙醇 / Ethyl Acetate, Ethanol	20	•		•	•	中粗彩虹效果 / Medium Rainbow Effect
Prismatic P 51510 EN	15	乙醇 / Ethanol	10	•	•	•	•	细彩虹效果 / Fine Rainbow Effect
Prismatic 155008 MA	15	丙二醇甲醚醋酸酯/ Methoxy propyl acetate	50		•			闪烁彩虹效果 / Sparkle Rainbow Effect
Prismatic 102004 MA	10	丙二醇甲醚醋酸酯/ Methoxy propyl acetate	20		•			中粗彩虹效果 / Medium Rainbow Effect
Liquid Black	10	丙二醇甲醚 / Methoxy propanol	14	•				超黑镜面效果 / Ultra-black Mirror Effect
Mirrorshine 1006	10	乙醇、丙二醇甲醚 / Ethanol, Methoxy propanol	7	•				闪亮浮型效果 / Shiny Leafing Effect

Aluminium Pigment Pastes

for Water Borne Coating and Graphic Art Applications

铝浆颜料

适用于水性涂料和印刷应用



STAPA® HYDROXAL E

STAPA® HYDROXAL is additive passivated pigment technology for reasonable gassing performance in pure water borne formulation with high requests on low VOC or eliminated organic solvent components.

STAPA® HYDROXAL 采用添加剂钝化技术，在纯水性配方中提供有效的发气稳定性，满足对低 VOC 或避免有机溶剂组分的体系要求。

STAPA®

型号/Type	非挥发份(颜料)/ Non volatile content (pigment) %	溶剂类型/ Type of solvents *	平均粒径 Average particle size D50 约/approx. [µm]	颗粒形状/ Particle shape	漂浮特性/ Leafig property
HYDROXAL E 4000	65	水 / Water	6	玉米片型 / Cornflake	浮型 / Leafig

Aluminium Pigment Pastes

for Water Borne Coating and Graphic Art Applications

铝浆颜料

适用于水性涂料和印刷应用



STAPA® HP Z

STAPA® HP Z are SiO₂ encapsulated aluminium pigment pastes for advanced water borne coatings and printing applications for very good gassing and outstanding covering performances.

STAPA® HP Z 是二氧化硅包覆铝浆，适用于高级水性涂料和印刷油墨，具有很强的发气稳定性和遮盖力。

STAPA® HP Z

型号 / Type	颜料形状 / Pigment shape	非挥发份(颜料) / Non volatile content (pigment)	平均粒径 / Average particle size	溶剂 / Solvent	工业涂料 / Industrial coatings	印刷 / Graphic arts
		%	D50 约/approx. [µm]		- 塑料涂料 / Plastic coatings - 轮毂涂料 / Wheel coatings	
3405 IL	银元型 / Silverdollar	65	36	异丙醇 / Isopropanol	+	+
2600 IL	玉米片型 / Cornflake	60	28		+	+
2505 IL	银元型 / Silverdollar	65	26		+	+
1805 IL	银元型 / Silverdollar	60	20		+	+
1405 IL	银元型 / Silverdollar	60	16		+	+
1400 IL	玉米片型 / Cornflake	60	18		+	+
1305 IL	银元型 / Silverdollar	55	13		+	+
1255 IL	银元型 / Silverdollar	50	13		+	+
1105 IL	银元型 / Silverdollar	60	10		+	+
0855 IL	银元型 / Silverdollar	45	10		+	+

推荐 / Recommendation

+ 适合/建议 suitable/recommended

更多型号可按需生产/Further products upon request

Aluminium Pigment Pastes

for Water Borne Coating Applications

铝浆颜料

适用于水性涂料



STAPA® IL HYDROLAN

STAPA® IL Hydrolan is our top product for waterborne coating applications. Besides its extreme gassing performance and shear stability in coatings it provides:

- Wide effect range from fine to coarse
- Outstanding coverage properties
- Reliable batch to batch consistency / OEM performance
- Large compatibility for many waterborne and solvent borne coating systems
- Easy dispersibility for constant paint results
- 24 months' product shelf life

STAPA® IL Hydrolan 是我们应用于水性涂料的顶端产品。除了极限发气耐性和耐剪切稳定性外，它还具有：

- 全面涵盖从细腻到粗闪的各种效果
- 出色的遮盖力
- 可靠的批次间稳定性，出色的汽车原厂涂料应用性能
- 广泛相容于各种水性和溶剂型涂料
- 易于分散，制漆性能稳定
- 保质期 24 个月

STAPA® IL HYDROLAN

型号/Type	颜料形状 / Pigment shape	非挥发份(颜料)/ Non volatile content (pigment)	平均粒径/ Average particle size	溶剂/ Solvent
		%	D50 约/approx. [µm]	
214	银元型 / Silverdollar	65	36	异丙醇 / Isopropanol
2153	银元型 / Silverdollar	65	26	
2154	银元型 / Silverdollar	60	21	
2156	银元型 / Silverdollar	60	20	
2192	银元型 / Silverdollar	60	16	
2197	银元型 / Silverdollar	60	13	
3580	银元型 / Silverdollar	60	14	
161	玉米片型 / Cornflake	60	28	
501	玉米片型 / Cornflake	60	27	
618	玉米片型 / Cornflake	60	15	
8154	玉米片型 / Cornflake	60	22	

Aluminium Pigment Pastes

for Water Borne Coating Applications

铝浆颜料

适用于水性涂料



STAPA® IL HYDROLAN S

STAPA® Hydrolan S serie, SiO₂ encapsulated version of our high performer SILVERSHINE S is for boosting very bright and strong metallic optics combined with outstanding covering performance and excellent compatibility for most waterborne coating systems.

STAPA® HYDROLAN S 是具有高性能的 SILVERSHINE S 系列的二氧化硅包覆版本, 具有增强的明亮而强烈的金属效果、出色的遮盖力和在大部分水性涂料体系中优秀的相容性。

STAPA® IL HYDROLAN S

型号 / Type	颜料形状 / Pigment shape	非挥发份(颜料)/ Non volatile content (pigment)	平均粒径 Average particle size	溶剂/ Solvent
422	银元型 / Silverdollar	%	D50 约/approx. [µm]	异丙醇 / Isopropanol
418		60	26	
412		60	22	
408		50	14	
1500		45	11	
1100		20	14	
		50	9	

更多型号可按需生产/Further products upon request

Vacuum Metallized Pigment Dispersions

for Water Borne Coating Applications

真空镀铝金属颜料分散体

适用于水性涂料



HYDROSHINE is our SiO₂ encapsulated pigment solution based on METALURE environmental friendly waterborne coating solutions for strong chrome like finishes.

HYDROSHINE 基于 METALURE, 是经过二氧化硅包覆, 适用于水性涂料体系的具有强烈类镀铬效果的环保型铝颜料。

HYDROSHINE

型号/Type	非挥发份(颜料)/ Non volatile content (pigment) %	溶剂/ Solvent	平均粒径 Average particle size D50 约/approx. [µm]	特点 / Comment
WS 4140	10	异丙醇 / 乙二醇丁醚 / Isopropanol / Butyl glyco	14	二氧化硅稳定型的暗调型号, 具有非常高的耐化学性 / Dark grade on SiO ₂ -basis, very high chemical resistance
WS 3001	10	异丙醇 / Isopropanol	12	非常高的耐化学性和发气稳定性 / Very high chemical resistance and gassing stability
WS 3003	10	异丙醇 / Isopropanol	11	出色的光学效果和层间附着力 / Excellent optical effects, excellent intercoat adhesion
WS 3004	10	异丙醇 / Isopropanol	11	非常高的耐化学性和发气稳定性 / Very high chemical resistance and gassing stability
WS 4001	10	异丙醇 / 乙二醇丁醚 / Isopropanol / Butyl glyco	11	二氧化硅稳定型的暗调型号, 具有非常高的耐化学性 / Dark grade on SiO ₂ -basis, very high chemical resistance
WS 6001	10	异丙醇 / Isopropanol	10	二氧化硅稳定型的最暗调型号, 具有非常高的耐化学性 / Darkest grade on SiO ₂ -basis, very high chemical resistance
WS 3070	20	异丙醇 / Isopropanol	7	优秀的随角异色性 / Good flop

Aluminium Pigment Powder

for Coating and Plastic Applications

铝粉颜料

适用于涂料和塑料



STANDART®

Standard aluminium powder grades for coatings and plastics. FDA approved! Resist grades are for high performance effects in plastics.

适用于涂料和塑料的标准铝粉，通过 FDA 认证！ Resist 系列适用于高性能效果塑料。

STANDART®

型号/Type	颜料形状 / Pigment shape	漂浮特性 / Leafling properties	平均粒径 / Average particle size D50 约/approx. [µm]	表面处理 / Surface Treatment
Resist 212	Silverdollar / 银元型	浮型 / Leafling	48	包覆型 / Encapsulated
Resist 214	Silverdollar / 银元型	浮型 / Leafling	31	包覆型 / Encapsulated
Resist 501	Cornflake / 玉米片型	浮型 / Leafling	19	包覆型 / Encapsulated
Chromal IV	Cornflake / 玉米片型	浮型 / Leafling	16	非包覆型 / Non-coated

Aluminium Pigment Powder

for Powder Coating Applications

铝粉颜料

适用于粉末涂料



STANDART®

STANDART® PC are established leafing pigments for interior applications and excellent charge ability.

STANDART® PC 是经典的浮型铝粉颜料，适用于室内应用，具有优秀的荷电性能。

STANDART® PC

型号/Type	平均粒径/ Average particle size	容积密度(典型值) / Bulk density (Typical value)	有机溶剂湿法筛析 / Screen Analysis/wet sieving with organic solvents as rinsing liquid 依据/acc. to DIN 53196 [µm] 不低于 min. [%]		
	D50 约/approx. [µm]	约/approx. kg/l	<71	<63	<45
150	6	0.15	-	-	99.9
200	4	0.1	-	-	99.9

Aluminium Pigment Powder

for Powder Coating Applications

铝粉颜料

适用于粉末涂料



STANDART®

STANDART® PCR are established non-leaving pigments for interior applications and excellent charge ability. STANDART® PCR 是经典的非浮型铝粉, 适用于室内应用, 具有优秀的荷电性能。

STANDART® PCR

型号/Type	平均粒径/ Average particle size	容积密度(典型值) / Bulk density (Typical value)	有机溶剂湿法筛析 / Screen Analysis/wet sieving with organic solvents as rinsing liquid 依据/acc. to DIN 53196 [µm] 不低于 min. [%]			应用 / Application
	D50 约/approx. [µm]	约/approx. kg/l	<100	<71	<45	*
212	48	0.3	-	98	-	PC, PL
214	31	0.3	-	98	-	PC, PL
181	26	0.2	-	-	99	PC
501	19	0.2	-	-	99	PC, PL
801	17	0.2	-	-	99	PC
901	10	0.1	-	-	99.8	PC
1100	8	0.1	-	-	99.8	PC

Aluminium Pigment Powder

for Powder Coating Applications

铝粉颜料

适用于粉末涂料



STANDART®

STANDART® PCS are high chemical resistant non-leaving pigments. They are encapsulated in a compact SiO₂ matrix generated in a special sol-gel process.

STANDART® PCS 是具有高化学耐性的非浮型铝粉。产品经过以特殊的溶胶-凝胶方式进行的二氧化硅致密包覆。

STANDART® PCS

型号/Type	平均粒径/ Average particle size D50 约/approx. [µm]	容积密度(典型值) / Bulk density (Typical value) 约/approx. kg/l	有机溶剂湿法筛析 / Screen Analysis/wet sieving with organic solvents as rinsing liquid 依据/acc. to DIN 53196 [µm] 不低于 min. [%]
5000	51	0.4	99.9
3500	33	0.4	99.9
2000	20	0.2	99.9
1500	15	0.2	99.9
1000	11	0.2	99.9
900	9	0.1	99.9
600	6	0.1	99.8

Aluminium Pigment Powder

for Powder Coating Applications

铝粉颜料

适用于粉末涂料



STANDART®

STANDART® PCU are very high chemical resistant non-leafing pigments, are SiO₂ and acrylic resin encapsulated.

STANDART® PCU 是具有非常高化学耐性的非浮型铝粉, 经过二氧化硅和丙烯酸树脂双层包覆。

Stable, more stable, PCUplus – their maximum resistance to chemicals is indisputably the one characteristic that makes our new non-leafing pigments for powder coatings so globally unique.

稳定, 更稳定的 STANDART® PCUplus - 其无可争议的化学耐性使它成为全球独一无二的新一代非浮铝粉。

STANDART® PCU

型号/Type	平均粒径/ Average particle size	容积密度(典型值) / Bulk density (Typical value)	有机溶剂湿法筛析 / Screen Analysis/wet sieving with organic solvents as rinsing liquid		
	D50 约/approx. [µm]	约/approx. kg/l	依据/acc. to DIN 53196 [µm] 不低于 min. [%]		
5000	51	0.4	<71 98	<63 -	<45 -
3500	34	0.4	98	-	-
2000	22	0.2	-	99	-
1500	17	0.2	-	-	99
1000	13	0.2	-	-	99.8

STANDART® PCUplus

型号/Type	平均粒径/ Average particle size	容积密度(典型值) / Bulk density (Typical value)	有机溶剂湿法筛析 / Screen Analysis/wet sieving with organic solvents as rinsing liquid		
	D50 约/approx. [µm]	约/approx. kg/l	依据/acc. to DIN 53196 [µm] 不低于 min. [%]		
800	8	15	<71 -	<63 -	<45 99.5

Aluminium Pigment Powder

for Powder Coating Applications

铝粉颜料

适用于粉末涂料



STANDART®

STANDART® PCBF are very high chemical resistant non-leaving pigments, dry blend properties are comparable to bonded products.

STANDART® PCBF 是具有非常高化学耐性的非浮型铝粉，无需邦定，干混产品效果可与邦定产品相媲美。

STANDART® PCBF

型号/Type	铝含量/ Aluminium content	容积密度(典型值) / Bulk density (Typical value)	平均粒径 / Average particle size		
	%	约/approx. kg/l	约/approx. [µm]		
			D10	D50	D90
5000	43 - 49	0.2 - 0.5	13 - 25	45 - 55	72 - 82
3500	43 - 49	0.2 - 0.5	4 - 13	29 - 38	54 - 64

Gold Bronze Pigment Powder

for Graphic Art Applications

铜金粉颜料

适用于印刷应用



STANDART®



Universal bronze powders in attractive colours for all printing technologies

具有引人色彩的通用型铜金粉, 适用于所有印刷方式

Grade 型号	Colour Shade 色相	Leafig Property 漂浮特性	Average Particle Size 平均粒径约值 D50 [µm] Approx.	Application 应用				
				Offset 胶印	Flexo 柔印	Tower Coater 上光单元	Gravure 凹印	Screen 丝印
STANDART® - conventional leafig gold bronze pigments in a wide range of particle sizes and colour shades								
STANDART® - 传统浮型铜金粉, 具有各种粒径和色相								
STANDART® Offset 3000 Super	Rich Gold / 青金	Leafig / 浮型	4	●	-	-	-	-
STANDART® Offset 3000 Super	Pale Gold / 红金		4	●	-	-	-	-
STANDART® Offset 4000 Rich Gold	Rich Gold / 青金		3	●	-	-	-	-
STANDART® Offset 4000 Pale Gold	Pale Gold / 红金		3	●	-	-	-	-
LITHOFLEX® XA 15 01	Rich Gold / 青金		2.5	●	-	-	-	-
LITHOFLEX® XA 15 03	Pale Gold / 红金		2.5	●	-	-	-	-
ROTOFLEX XA 6-203	Pale Gold / 红金		6	-	●	●	●	●
ROTOFLEX XA 6-209	Rich Gold / 青金		6	-	●	●	●	●

Gold Bronze Pigment Powder

for Coating, Plastic and Graphic Art Applications

铜金粉颜料

适用于涂料、塑料和印刷应用



STANDART®

The well balanced product range of gold bronze pigment offers the possibility to create optical effects from fine and untextured to coarse and sparkling. Use inorganic coated Resist grades to maintain colour and performance while using high heated curing processes.

构成平衡的铜金粉系列,可带来从细腻到粗闪的各种金属效果。Resist 系列采用无机包覆,高温下仍可保持色彩表现。

STANDART®

型号/Type	色相 / Shade	应用 / Application	平均粒径 Average particle size D50 [µm] 约 Approx.	有机溶剂湿法筛析 / Screen Analysis/wet sieving with organic solvents as rinsing liquid			表面处理 / Surface Treatment
				依据/acc. to DIN 53196 [µm] 不低于 min. [%]			
		**		<160	<100	<71	<45
Lack/ Lac LT Copper	古铜 / Copper	CO, GA	42	98	-	-	-
Lack/ Lac LT Rich Gold	青金 / Rich Gold	CO, GA					
Lack/ Lac LT Pale Gold	红金 / Pale Gold	CO, GA					
Lack/ Lac L 900 Copper	古铜 / Copper	PL	35	99	-	-	-
Lack/ Lac L 900 Rich Gold	青金 / Rich Gold	CO, GA, PL					
Lack/ Lac L 900 Pale Gold	红金 / Pale Gold	CO, GA, PL					
Lack/ Lac E 900 Copper	古铜 / Copper	CO, GA	17	-	-	98	-
Lack/ Lac E 900 Rich Gold	青金 / Rich Gold	CO, GA, PL					
Lack/ Lac E 900 Pale Gold	红金 / Pale Gold	CO, GA, PL					
Lack/ Lac K 900 Copper	古铜 / Copper	CO, GA	10	-	-	-	98
Lack/ Lac K 900 Rich Gold	青金 / Rich Gold	CO, GA, PL					
Lack/ Lac K 900 Pale Gold	红金 / Pale Gold	CO, GA, PL					
RESIST LT Copper	古铜 / Copper	CO, GA	39	-	99	-	-
RESIST LT Rich Gold	青金 / Rich Gold	CO, GA					
RESIST LT Pale Gold	红金 / Pale Gold	CO, GA					
RESIST CT Copper	古铜 / Copper	CO, GA, PL	27	-	-	98	-
RESIST CT Rich Gold	青金 / Rich Gold	CO, GA, PL					
RESIST CT Pale Gold	红金 / Pale Gold	CO, GA, PL					
RESIST AT Copper	古铜 / Copper	CO, GA, PL	14	-	-	-	98
RESIST AT Rich Gold	青金 / Rich Gold	CO, GA, PL					
RESIST AT Pale Gold	红金 / Pale Gold	CO, GA, PL					
RESIST ROTOFLEX BRILLIANT Rich Gold	青金 / Rich Gold	CO, GA, PL	8	-	-	-	99
RESIST ROTOFLEX BRILLIANT Pale Gold	红金 / Pale Gold	CO, GA					

* CO = 涂料 / Coatings
GA = 印刷 / Graphic arts
PL = 塑料 / Plastics

Gold and Silver Pigment Pellets

for Solvent Borne Coating and Graphic Art Applications



Aludur

ROTOSAFE pelletized Bronze and Aluminium pigments the use in solvent borne flexo, screen or gravure inks

ALUDUR is easily dispersible, dust-free dosing. The easy-to-process pellet shape of ALUDUR metallic pigments makes them a popular product - both in the industrial coating and printing sectors: When used, the pellets can be easily and completely poured and processed out of their packaging drum.

- dust free
- no VOC
- no dangerous good
- no odour

条状铜金颜料和铝颜料

适用于溶剂型涂料和印刷应用



ROTOSAFE 条状铜金和铝颜料适用于柔印、丝印和凹印油墨。

ALUDUR 系列易于分散，无尘，通用于工业涂料和印刷油墨，使用时容易整桶倒出。

- 无尘
- 不含 VOC
- 非危险品
- 无气味

Grade 型号	Colour Shade 色相	Application 应用			Leafling Property 漂浮特性	Pigment Type 颗粒形状	Average particle size 平均粒径 D50 [µm] 约 Approx.	Pigment Content 固含量 %	Solvent 溶剂	DPA Free 不含 DPA	APEO Free 不含 APEO	Mineral Oil Free 不含矿物油	Ingredients Swiss Listed 成分符合瑞士包装 油墨法令	
		Flexo 柔印	Gravure 凹印	Screen 丝印										
ROTOSAFE 700 081	Rich Gold / 青金	•	•	•	Leafling / 浮型	Cornflake 玉米片型	8	95	-	•	•	•	•	
ROTOSAFE 700 083	Pale Gold / 红金	•	•	•			8	95	-	•	•	•	•	•
ROTOSAFE 760 003	Silver / 银	•	•	•			10	95	-	•	•	< 0.1%	•	•
ALUDUR LA 15 n.l.		•	•	•	Non-leafling / 非浮型	Silverdollar 银元型	11	95	-	•	•	< 0.1%	•	
ALUDUR LA 0801		•	•	•			8	95	-	•	•	< 0.1%	•	•
ALUDUR LA 80 n.l.		•	•	•			13	95	-	•	•	< 0.1%	•	•
ALUDUR LA 90 n.l.		•	•	•			11	95	-	•	•	< 0.1%	•	•

Aluminium Pigment Preparations

for Plastic Applications



MASTERSAFE products are our recommendation for your plastic applications. All grades are FDA approved.

MASTERSAFE 推荐用于塑料应用, 所有规格通过 FDA 认证。

We offer two solutions for a dust free and odourless processes, de-dusted pigment and pigment pellets.

我们提供两种无尘且无气味的产品制备形态, 无尘颜料和颗粒状颜料。

特殊制备铝颜料

适用于塑料



MASTERSAFE

型号/Type	颜料形状 / Pigment shape	非挥发份(颜料)/ Non volatile content (pigment)	载体/ Carrier	平均粒径 / Average particle size	制备形态 / Delivery form
		%		D50 约/approx. [µm]	
ZP 10-20C	Cornflake / 玉米片型	80	聚烯烃 / Polyolefin	10	无尘颜料 / De-dusted pigments
ZP 11-20C	Silverdollar / 银元型	80	聚烯烃 / Polyolefin	12	无尘颜料 / De-dusted pigments
ZP 13-20C	Silverdollar / 银元型	80	聚烯烃 / Polyolefin	13	无尘颜料 / De-dusted pigments
ZP 15-20C	Silverdollar / 银元型	80	聚烯烃 / Polyolefin	15	无尘颜料 / De-dusted pigments
ZP 19-20C	Silverdollar / 银元型	80	聚烯烃 / Polyolefin	19	无尘颜料 / De-dusted pigments
ZP 34-20C	Silverdollar / 银元型	80	聚烯烃 / Polyolefin	34	无尘颜料 / De-dusted pigments
ZP 54-20C	Silverdollar / 银元型	80	聚烯烃 / Polyolefin	55	无尘颜料 / De-dusted pigments
MP 68-20B	Silverdollar / 银元型	80	聚烯烃 / Polyolefin	87	颗粒状 / Pellets
MP 100-20B	Silverdollar / 银元型	80	聚烯烃 / Polyolefin	110	颗粒状 / Pellets

Synthetic Pearlescent Pigment Powder

for Coating, Graphic Art and Plastic Applications

合成珠光粉颜料

适用于涂料、印刷和塑料



SYMIC pearlescent pigments are based on synthetic mica. They feature high colour purity and colour depth. The stabilized SYMIC OEM version with its particularly narrow particle distribution offers, in addition, outstanding weather and chemical resistance.

SYMIC 珠光颜料的基材为合成云母，具有高色纯度和色深度。稳定型 SYMIC OEM 版本粒径分布狭窄并具有出色的耐候性和化学耐性。

SYMIC				SYMIC	
型号/Type	粒径分布/ Particle size distribution [µm]	珠光光泽	Pearlescent lustre effect	型号/Type	粒径分布/ Particle size distribution [µm]
户内/无处理版本 Interior/Untreated version				户外/经处理版本 Exterior/Treated version	
A001	1 - 15	干涉银	Interference Silver	OEM Superfine Silver	3 - 15
A393		组合金	Combination Gold	-	-
A502		铜金	Bronze (Earth Tone)	-	-
A522		古铜	Copper (Earth Tone)	-	-
B001	5 - 25	干涉银	Interference Silver	OEM Fine Silver	7 - 25
B261		干涉蓝	Interference Blue	OEM Fine Blue	
C001	10 - 40	干涉银	Interference Silver	OEM Medium Silver	12 - 38
C241		干涉红	Interference Red	OEM Medium Red	
C261		干涉蓝	Interference Blue	OEM Medium Blue	
C321		深金	Deep Gold	OEM Medium Deep Gold	
C393		组合金	Combination Gold	OEM Medium Space Gold	
C522		古铜	Copper (Earth Tone)	OEM Medium Copper	
C542		火红	Fire Red (Earth Tone)	OEM Medium Firered	
C604		实银	Opaque Silver	OEM Medium Opaque Silver	
E001	20 - 150	干涉银	Interference Silver	-	-
E221		干涉金	Interference Gold	-	-
E241		干涉红	Interference Red	-	-

Synthetic Pearlescent Pigment Powder

for Powder Coating Applications

SyMic[®] PCE

SYMIC PCE is a generation of weather resistant synthetic pearlescent effect pigments especially designed for powder coating applications. Due to its high efficiency and chroma this innovative pigment series provides new styling possibilities for exterior and architectural powder coating applications.

SYMIC PCE 是专为粉末涂料设计的耐候型合成云母珠光粉。得益于其高效能和高彩度，该系列创新颜料可以为户外建筑粉末涂料提供全新的色彩设计风格。

合成珠光粉颜料

适用于粉末涂料



SYMIC PCE

型号/Type	粒径分布/ Particle size distribution [µm]	表面处理/ Surface treatment	色相/ Shade
A001	3 - 21	二氧化硅包覆 Silica encapsulated	银 / Silver
C001	15 - 60		银 / Silver
E001	35 - 150		银 / Silver
A393	3 - 21		金 / Gold
C393	15 - 60		金 / Gold
C522	15 - 60		古铜 / Copper

Synthetic Pearlescent Pigment Powder

High Chroma Interference Effects

for Coating, Graphic Art and Plastic Applications



Emotion at first sight!

EDELSTEIN is our premium synthetic pearlescent pigment which offers powerful sparkle and gloss. Its chroma and colour intensity is unique in the market due to patented interference layer structure.

- Outstanding chemical and shear stability
- Large compatibility in many coating systems

一见钟情!

EDELSTEIN 是高级型合成云母珠光颜料, 提供强烈的闪烁和光泽。得益于专利的干涉效果包覆层, 其具有市场上独一无二的高彩度和色强度。

- 出色的化学耐性和耐剪切稳定性
- 与众多涂料体系广泛的相容性

合成珠光粉颜料

高彩度干涉色效果

适用于涂料、印刷和塑料



EDELSTEIN			EDELSTEIN		
型号/Type	粒径分布/ Particle size distribution [µm]	珠光光泽效果	Pearlescent luster effect	型号/Type	粒径分布/ Particle size distribution [µm]
户内/无处理版本 Interior/Untreated version				户外/经处理版本 Exterior/Treated version	
Ruby Red	10 - 40	红	Red	CFX Ruby Red	12 - 38
Topaz Orange	10 - 40	橙	Orange	CFX Topaz Orange	12 - 38
Sunstone Champagne	10 - 40	香槟	Champagne	-	-
Sapphire Blue	10 - 40	蓝	Blue	CFX Sapphire Blue	12 - 38

Synthetic Pearlescent Pigment Powder

for Coating, Graphic Art and Plastic Applications



The pearlescent LUXAN pigments are based on synthetically manufactured glass flakes. LUXAN CFX as a stabilized product variant is a combination of the brilliant optical characteristics of the LUXAN series with additional functional advantages, such as excellent weather resistance, condensation test and intercoat adhesion.

合成珠光粉颜料

适用于涂料、印刷和塑料



LUXAN 系列是以人造玻璃片为基材的珠光颜料。该系列的分支产品 LUXAN CFX 不但具有 LUXAN 系列本身的闪亮效果，更具备优秀的耐候性、抗结露性和高强层间结合力的性能优点。

LUXAN				LUXAN					
型号/Type 户内/无处理版本 Interior/Untreated version	应用/ Application *	粒径分布/ Particle size distribu- tion [µm]	珠光光泽	Pearlescent lustre effect	型号/Type 户外/经处理版本 Exterior/Treated version	应用/ Application *	粒径分布/ Particle size distribu- tion [µm]		
B001	CO, GA, PL	5 - 45	干涉银	Interference Silver	CFX B001	CO	5 - 45		
B241	CO, GA, PL		干涉红	Interference Red	CFX B241	CO			
B261	CO, GA, PL		干涉蓝	Interference Blue	CFX B261	CO			
B393	CO, GA, PL		组合金	Combination Gold	CFX B393	CO			
B502	CO, GA, PL		铜金	Bronze (Earth Tone)	CFX B502	CO			
B512	CO, GA, PL		香槟	Champagne (Earth Tone)	CFX B512	CO			
B522	CO, GA, PL		古铜	Copper (Earth Tone)	CFX B522	CO			
B542	CO, GA, PL		火红	Fire-Red (Earth Tone)	CFX B542	CO			
C001	CO, GA, PL		10 - 65	干涉银	Interference Silver	CFX C001		CO	10 - 65
C241	CO, GA, PL			干涉红	Interference Red	CFX C241		CO	
C261	CO, GA, PL	干涉蓝		Interference Blue	CFX C261	CO			
C393	CO, GA, PL	组合金		Combination Gold	CFX C393	CO			
D001	CO, GA, PL	20 - 105	干涉银	Interference Silver	CFX D001	CO	20 - 105		
D393	CO, GA, PL		组合金	Combination Gold	CFX D393	CO			
D502	CO, GA, PL		铜金	Bronze (Earth Tone)	CFX D502	CO			
D512	CO, GA, PL		香槟	Champagne (Earth Tone)	CFX D512	CO			
-	-		-	Copper (Earth Tone)	CFX D522	CO			
D542	CO, GA, PL		火红	Fire-Red (Earth Tone)	CFX D542	CO			
E001	CO, PL	35 - 150	干涉银	Interference Silver	CFX E001	CO	35 - 150		
E221	CO, PL		干涉金	Interference Gold	-	-			
E241	CO, PL		干涉红	Interference Red	-	-			
E261	CO, PL		干涉蓝	Interference Blue	-	-			
F001	CO, PL	75 - 450	干涉银	Interference Silver	-	-	-		
K001	PL	150 - 1200	干涉银	Interference Silver	-	-	-		
K221	PL		干涉金	Interference Gold	-	-	-		
K241	PL		干涉红	Interference Red	-	-	-		
K261	PL		干涉蓝	Interference Blue	-	-	-		
K271	PL		干涉绿	Interference Green	-	-	-		

* CO = 涂料 / Coatings
GA = 印刷 / Graphic arts
PL = 塑料 / Plastics



Metallic Inks for film

应用于薄膜的金属效果油墨

Grade 型号	Colour Shade 色相	Application 应用	Brilliance 金属感	Average particle size 平均粒径 D50 [µm] 约 Approx.	Pigment content 颜料含量 %	Binder System 树脂体系	Mineral Oil Free 不含矿物油	Ingredients Swiss Listed 成分符合瑞 士包装油墨 法令	Comment 特点
<p>ULTRASTAR is an ideal product series for spot colour effects for premiumization and an alternative to metalized board and foil stamping.</p> <p>ULTRASTAR 是实现局部高级金属效果的完美油墨, 可取代镀铝和烫金工艺。</p>									
ULTRASTAR GX-7003	Silver / 银	Gravure / 凹印	*****	6	8	PVB ¹⁾	●	●	High coverage mirror effect ink / 高遮盖镜面油墨
ULTRASTAR GX-7004	Silver / 银	Gravure / 凹印	*****	10	6	PVB ¹⁾	●	N/A	Medium mirror effect / 中性镜面效果
ULTRASTAR GX-7005	Silver / 银	Gravure / 凹印	*****	10	6	PVB ¹⁾	●	N/A	Dark mirror effect / 黑亮镜面效果

1) PVB - Polyvinyl Butyral, 聚乙烯醇缩丁醛

Water Borne Metallic Inks

水性金属效果油墨



Flexo inks for corrugated board, paper, carton and tissue

应用于瓦楞纸、纸张、纸板及纸巾的柔印油墨

Grade 型号	Colour Shade 色相	Leafing Property 漂浮特性	Average particle size 平均粒径 D50 [µm] 约 Approx.	Pigment Content 颜料含量 %	Solid content 固体含量 %	Solvent 溶剂	Binder System 树脂体系	Mineral Oil Free 不含矿物油	Comment 特点
ROTOSTAR Aqua FP 06-41001	Silver / 银	Leafing / 浮型	10	15	40	Water / 水	Acrylic / 丙烯酸	< 0.1%	Paper and carton, easy to use, good adhesion, over lacquering recommended / 适用于纸张和纸板, 易于使用, 附着力强, 建议表面上光
ROTOSTAR Aqua FP 06-41002	Silver / 银	Non-leafing / 非浮型	10	15	40	Water / 水	Acrylic / 丙烯酸	< 0.1%	
ROTOSTAR Aqua FP 06-19001	Rich Gold / 青金	Leafing / 浮型	6	45	58	Water / 水	Acrylic / 丙烯酸	●	
ROTOSTAR Aqua FP 06-39001	Pale Gold / 红金	Leafing / 浮型	6	45	58	Water / 水	Acrylic / 丙烯酸	●	Paper and carton, over lacquering recommended. Easy tintable, alcohol dilutable / 适用于纸张和纸板, 易于使用, 建议表面上光。易于调色, 乙醇相容度高。
ROTOSTAR Aqua FP 19-19001	Rich Gold / 青金	Leafing / 浮型	6	35	58	Water / 水	Acrylic / 丙烯酸	●	
ROTOSTAR Aqua FP 19-39001	Pale Gold / 红金	Leafing / 浮型	6	35	58	Water / 水	Acrylic / 丙烯酸	●	
ROTOSTAR Aqua FP 19-41002	Silver / 银	Non-leafing / 非浮型	10	18	40	Water / 水	Acrylic / 丙烯酸	< 0.1%	



Grade 型号	Colour Shade 色相	Application 应用	Leafing Property 漂浮特性	Pigment Type 颗粒形状	Average particle size 平均粒径 D50 [µm] 约 Approx.	Pigment Content 颜料含量 %	Viscosity 黏度 Din 6mm [s]	BPA free 不含BPA	Mineral Oil Free 不含矿物油	FPG 食品包装级	Comment 特点
The ROTOSTAR UV series is suitable for many applications and substrates (absorbent and film).					ROTOSTAR UV 系列适于多种应用和基材(吸收性基材和薄膜)。						
ROTOSTAR UV FP 66-10601	Rich Gold / 青金	Flexo / 柔印	Leafing / 浮型	Cornflake / 玉米片型	6	30	45	-	●	-	Bright metallic / 明亮金属感
ROTOSTAR UV FP 66-70606	Pale Gold / 红金			Cornflake / 玉米片型	6	30	45	-	●	-	Bright metallic / 明亮金属感
ROTOSTAR UV FP 66-40501 Z	Silver / 银			Silverdollar / 银元型	5	10	40	-	●	-	Bright silver / 明亮银色
ROTOSTAR UV FP 66-41001	Silver / 银			Cornflake / 玉米片型	10	12	45	-	< 0.1%	-	Standard / 标准型
The ROTOSTAR LED series is suitable for many applications and substrates (absorbent and film).					ROTOSTAR LED 系列适于多种应用和基材(吸收性基材和薄膜)。						
ROTOSTAR LED FP 69-10601 Z	Rich Gold / 青金	Flexo / 柔印	Leafing / 浮型	Cornflake / 玉米片型	6	30	35	-	●	-	Standard, LED curing / 标准型, LED 固化
ROTOSTAR LED FP 69-30601 Z	Pale Gold / 红金			Cornflake / 玉米片型	6	30	60	-	●	-	
ROTOSTAR LED FP 69-40501 Z	Silver / 银			Silverdollar / 银元型	5	13	60	-	●	-	
ULTRASTAR UV and LED inks are an alternative to metallized substrates or foil stamping. Suitable for carton, paper and film.					ULTRASTAR UV 和 LED 可替代镀铝和烫金工艺, 适用于纸板、纸张和薄膜。						
ULTRASTAR UV FP-8220 Z Silver	Silver / 银	Flexo / 柔印	Leafing / 浮型	PVD	10	3.5	30	●	●	-	Premium / 高级型
ULTRASTAR LED 8300 Z Silver	Silver / 银	Flexo / 柔印	Leafing / 浮型	PVD	10	3.5	30	●	●	-	Premium / 高级型

UV Based Metallic Inks



METALSTAR UV/LED for brilliant UV/LED offset prints

METALSTAR UV/LED 高金属效果 UV/LED 胶印油墨

UV 固化金属效果油墨



Grade 型号	Colour Shade 色相	Application 应用	Leafing Property 漂浮特性	Pigment Type 颗粒形状	Average particle size 平均粒径 D50 [µm] 约 Approx.	Pigment Content 颜料含量 %	Viscosity 黏度 [Pas]	BPA free 不含BPA	Mineral Oil Free 不含矿物油	FPG * 食品包装级	Comment 特点
METALSTAR UV inks are well known in the market and suitable for printing on board, paper, metals (cans) as well as for in-mould application.					METALSTAR UV 是市场上著名的胶印油墨系列, 适用于纸板、纸张、金属(罐)及模内标。						
METALSTAR UV 21 6001	Rich gold / 青金	Offset / 胶印	Leafing / 浮型	Cornflake / 玉米片型	4	42	90	-	●	-	Standard effect / 标准效果
METALSTAR UV 21 6003	Pale gold / 红金	Offset / 胶印			4	42	90	-	●	-	
METALSTAR UV 21 6004	Silver / 银	Offset / 胶印			10	15	80	-	< 0.1%	-	
METALSTAR LED 21 6103	Pale gold / 红金	Offset / 胶印			4	42	90	-	●	-	Standard effect, LED curable / 标准效果, LED固化
METALSTAR LED 21 6101	Rich gold / 青金	Offset / 胶印			4	42	90	-	●	-	
METALSTAR LED 21 6204	Silver / 银	Offset / 胶印			10	15	80	-	< 0.1%	-	



METALSTAR established conventional offset inks for the optimal balance of appearance and regulatory requirements with excellent press stability.

METALSTAR 是在金属外观和法规要求之间取得最佳平衡的传统型胶印油墨，具有出色的印刷稳定性。

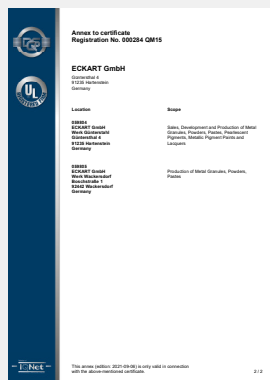
Grade 型号	Colour Shade 色相	Leafing Property 漂浮特性	Average particle size 平均粒径 D50 [µm] 约 Approx.	Mineral Oil Free 不含矿物油	Cobalt Drier Free 不含钴燥油	FPG * 食品包装级	Comment 特点
Food Packaging Grade without white spirit / mineral oil, produced under GMP.			食品包装级油墨，不含石油或矿物油溶剂，按照 GMP 规范生产。				
METALSTAR FPG 712 0001 Rich Gold	Rich Gold / 青金	Leafing / 浮型	2.5	●	●	●	Low migration, indirect food contact 低迁移，非食品直接接触
METALSTAR FPG 712 0003 Pale Gold	Pale Gold / 红金		2.5	●	●	●	
Non-leafing metallic ink, ideal for tinting and overprinting (e.g. UV lacquer)			非浮型金属效果油墨，适合染色和叠印（如UV罩光）				
METALSTAR 06 7000	Silver / 银	Non-Leafing / 非浮型	8	-	●	-	Unaffected metallic brilliance and colour after topcoats 罩光后金属感和色彩不受影响
METALSTAR 06 7500	Pantone Premium Silver/银		8	-	●	-	
Bright inks with high brilliance. Very stable press performance			墨色明亮，金属感强，印刷性能极其稳定				
UNIPAK 450 PG HK 9224 RP	Pale Gold / 红金	Leafing / 浮型	3	-	●	-	General purpose, wide application range 一般通用型，应用范围广泛
UNIPAK 450 RICH Litho 9200	Rich Gold / 青金		3	-	●	-	
UNIPAK 500 Silver Litho 9302	Silver / 银		8	-	●	-	
UNIPAK SuperLitho WCL RG 9888	Rich Gold / 青金		2.5	-	●	-	
UNIPAK SuperLitho PG Ink 9898	Pale Gold / 红金		2.5	-	●	-	
Bright inks with high brilliance. Very stable press performance.			墨色明亮，金属感强，印刷性能极其稳定				
METALSTAR SuperGloss 07 2001	Rich Gold / 青金	Leafing / 浮型	2	-	●	-	For high press speeds / 适合高速印刷
METALSTAR SuperGloss 07 2004	Pale Gold / 红金		2	-	●	-	
METALSTAR SuperGloss 07 2007	Silver / 银		5	-	●	-	
Mineral oil free			不含矿物油				
METALSTAR Eco 10 0001	Rich Gold / 青金	Leafing / 浮型	2.5	< 0.1	●	-	Mineral oil free / 不含矿物油
METALSTAR Eco 10 0003	Pale Gold / 红金		2.5	< 0.1	●	-	
METALSTAR Eco 10 0006	Silver / 银		7	< 0.3	●	-	

PANTONE® shades available upon request.

* FPG = Food Packaging Grade, low migration with respect to European regulations

潘通色墨可按需供应。

* FPG = 食品包装级，符合欧洲相关条例的低迁移标准



STAPA® / STANDART® 金属效果颜料的质量控制除了要检测在技术规格中的质量指标外, 还应检验其全面的光学性能。

In addition to determining the quality criteria specified in the data sheets, the quality control applied in connection with the STAPA®/STANDART® metal pigments comprises comprehensive testing of optical aspects.

按照规程, 下面的检验必须进行:

- 颜料本身的检验
- 应用性能的检验

As a rule, the following tests are carried out:

- Tests on the pigment, and
- tests in the application.

与颜料直接有关的质量特性包括:

- 筛析试验(粒径筛析)。方法标准为 DIN 53196 或 ASTM 11
- 粒径分布分析。方法按照 ISO 13320-1

The quality characteristics determined directly on the pigment are as follows:

- Sieve analysis (limit size particle sieving) according to DIN 53196 or ASTM 11
- Particle size distribution according to the laser granulometer method ISO 13320-1

所有浆料的附加检验:

- 挥发份或非挥发份含量。方法标准为 DIN 55923

As well as this, for all pastes

- Volatile or non-volatile content in accordance with DIN 55923

所有水性铝浆的附加检验:

- 发气稳定性(暂无国际标准)

在涂料应用时的光学特性检验

(目视和/或仪器):

- 金属效果(随角异色性)
- 白度
- 闪亮度(金属感)
- 鲜映度 (DOI)
- 色饱和度
- 着色力
- 遮盖力

In addition, for aluminium pastes for aqueous systems

- Gassing stability (not standardized)

The tests for the optical quality characteristics of a paint application (visual and/or instrumental) include the following:

- metallic effect (flop)
- brightness
- brilliance
- distinctiveness of image (DOI)
- colour saturation
- tinting strength
- hiding power

激光粒径测定

Determination of particle size distribution with laser granulometer

粒径分布(典型值)的测定方法根据 ISO 13320-1 标准,采用激光粒度测定仪测定 (HELOS)。

测量的结果除了与仪器的硬件(制造商、类型)和软件(计算机程序、设备等)有关外,还和下列因素有关:

- 分散方法
- 分散设备
- 分散介质
- 分散能量
- 分散时间

检测时的标准分散方法利用超声波进行。可以在内置的超声波槽内,或者更好是在外置的超声波槽中制备颜料。

超声波频率越高,或在分散容器中的能量越大,颜料就越显“细”。这是因为更多的超细颗粒被分散开来。当超声波能量极高时,原来的颜料颗粒会碎裂,形成超细的颗粒。

分散时间的影响可由D50这一中央值反映出来。分散时间越长,该值越低,即颜料的外观越细。

与分散能量和分散时间相比,分散介质的作用较小一些。常用于质量控制(QC)的介质是异丙醇。若使用其它溶剂,应事先检查一下装置的材料是否适应。

爱卡使用的详细检验方法(测试指南)可来函索取。

The measurement of the particle size distribution (typical value), is standardized according to ISO 13320-1. It is conducted by means of a laser granulometer (HELOS).

Besides hardware (equipment manufacturer and type) and software (computer program and plotting device), the results by the laser granulometer are highly dependent on the following parameters:

- way of dispersion
- dispersing device
- dispersing medium
- dispersion energy
- dispersion time

The standard dispersion method applied to the specimen is by ultrasound. One can either use the built-in ultrasonic bath or preferably the specimen can be prepared in an external ultrasonic dispersion bath.

The higher the ultrasound frequency or the greater the energy concentration in the dispersing vessel, the “finer” the specimen will appear; this is because more super fine particles have been dispersed. In cases of an extremely high energy concentration, super fine particles will be generated by mechanical breaking off from the original pigment.

The effect of the dispersion time is shown by the median value (D 50) falling as the dispersion time rises, i.e. once more the appearance of the specimen is “finer”.

Compared to the dispersion energy and time, the dispersion medium plays a relatively minor role; the medium generally used for QC purposes is isopropanol. The material properties of the device should be checked before using other solvents.

A detailed description of the testing method (test instruction) employed by ECKART can be obtained upon request.

爱卡 – 所有市场中的创新者

ECKART – Innovations for all markets

任何国际市场的领导者,都必须向全球提供不断创新的产品。目前,爱卡在全世界70多个国家都有推广和销售。这是我们及时洞察市场走向,快速而灵活地服务客户的最佳先决条件。

国际化的传统

一家拥有140多年历史的公司的经营哲学,让我们在日益全球化的进程中和世界更加贴近。“我们与客户一起走进世界”是爱卡的格言,也是我们成功的秘诀。作为ALTANA AG的成员,爱卡是在涂料行业、印刷应用、塑料和轻质混凝土行业以及化妆品行业里国际领先的金属颜料生产商。

爱卡在欧洲及海外

爱卡能够遍及全球,得益于我们在德国总部以及在中国、芬兰、瑞士、美国等地采用了最先进生产设备和装置的工厂,也得益于我们在世界各个重要地区的推广和销售。

对于我们的业务伙伴这意味着:您可以100%地信赖爱卡产品的质量以及爱卡提供的应用技术服务。

为了进一步巩固和扩展爱卡在全球市场的地位,我们越加重视新产品的开发以及对领域中出现问题的解决。这使得我们的业务伙伴有机会在更多的应用中使用爱卡产品。

Anybody who wants to play a leading role on the international market must present innovative products all over the world. Today ECKART is represented in over 70 countries of the world – the best precondition for recognising trends early and for responding to customers’ wishes fast and flexibly.

International by tradition

The philosophy which the over 140-year-old history of our company is based on has been gaining even more relevance in the course of the increasing globalisation process. “We follow our customers into the world” is the ECKART motto. And this is exactly why we are so successful! ECKART a member of ALTANA AG is the leading international manufacturer of metallic pigments for the paints and coatings industry, the graphic arts industry, the plastics, lightweight concrete industries and the cosmetics industry.

Locations in Europe and overseas

Our global presence has been obtained thanks to the most modern production facilities in Germany and in the subsidiaries in China, Finland, Switzerland, the USA as well as representations in all significant regions of the world.

For our business partners this means in practice: You can rely 100% on the quality of the products and the service concerning application technologies offered by ECKART.

In order to solidify and extend its position on the world market ECKART has been attaching more and more importance to innovative products and problem solutions. These offer ECKART’s partners new opportunities or even open up completely new forms of use within the various areas of application.

筛网标准对照表

Comparative table of sieving standards

筛网孔径 $\mu\text{m} = w/\text{Mesh aperture in } \mu\text{m} = w$

德国/ Germany	美国/ USA			英国/ Great Britain		法国/ France	荷兰/ Nether- lands	ISO R-565
	ASTM E 11	ASTM E 11	Tyler mesh inch	BS 410 w	mesh	AFNOR X11-501 w	NENORM w	
DIN 4188	w	w	no	w	mesh	w	w	w
36	-	-	-	-	-	-	38	-
-	38	400	400	38	400	-	-	-
40	-	-	-	-	-	40	45	-
45	45	325	325	45	350	-	-	45
50	-	-	-	-	-	50	53	-
-	53	270	-	53	300	-	-	-
56	-	-	-	-	-	-	63	-
63	63	230	250	63	240	63	-	63
71	-	-	-	-	-	-	75	-
-	75	200	200	75	200	-	-	-
80	-	-	-	-	-	80	-	-
90	90	170	170	90	170	-	90	90
100	-	-	-	-	-	100	-	-
112	106	140	150	106	150	-	106	-
125	125	120	120	125	120	125	125	125
140	-	-	-	-	-	-	-	-
-	150	100	100	150	100	-	150	-
160	-	-	-	-	-	160	-	-
180	180	80	80	180	85	-	180	180
200	-	-	-	-	-	200	-	-
224	212	70	70	212	72	-	212	-
250	250	60	60	250	60	250	250	250
280	-	-	-	-	-	-	-	-
-	300	50	48	300	52	-	300	-
315	-	-	-	-	-	315	-	-
355	355	45	42	355	44	-	355	355
400	-	-	-	-	-	400	-	-
450	425	40	35	425	36	-	425	-
500	500	35	32	500	30	500	500	500
560	-	-	-	-	-	-	-	-
-	600	30	28	600	25	-	600	-
630	-	-	-	-	-	630	-	-
710	710	25	24	710	22	-	710	710
800	-	-	-	-	-	800	-	-
-	850	20	20	850	18	-	850	-
900	-	-	-	-	-	-	-	-
1000	1000	18	16	1000	16	1000	1000	1000
-	1180	16	14	-	-	-	-	-
-	-	-	-	-	-	-	1200	-
-	-	-	-	-	-	1250	-	-
1400	1400	14	12	1400	12	-	1400	1400
-	-	-	-	-	-	1600	-	-
-	1700	12	10	1700	10	-	-	-
2000	2000	10	9	2000	8	-	-	2000

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