



ECKART GmbH
Guentersthal 4, 91235 Hartenstein, Germany
Tel.: +49 9152 77-0
Fax: +49 9152 77-7008
E-Mail: info.eckart@altana.com
www.eckart.net

爱卡特殊效果颜料(珠海)有限公司
中国广东省珠海市高栏港经济区精细化工区
ECKART Zhuhai Co. Ltd.
Fine Chemical Area, Gaolan Port Economic Zone
Zhuhai, P.R.China

爱卡(亚洲)有限公司
ECKART Asia Ltd.
Tel.: +852 3102 7200
Fax: +852 2882 5366
E-Mail: info.eckart.asia@altana.com

上海/Shanghai
Tel.: + (86 21) 6456 8880
Fax: + (86 21) 6456 5063

广州/Guangzhou
Tel.: + (86 20) 8387 8860

台北/Taipei
Tel.: + (886) 930 016 236

星铂联雅思达颜料(济南)有限公司
山东省济南市章丘曹范镇
Silberline Yasida Pigments (Jinan) Co., Ltd.
Cao Fan Town Zhangqiu District, Jinan City
Shandong Province, China

苏州/Suzhou
Tel.: + (86 512) 6733 3150
Fax: + (86 512) 6272 3540

0.8/October2025.4 PRC

A member of **ALTANA**



适用于涂料、塑料和印刷的效果颜料
适用于印刷的金属效果油墨

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

中国产品
Made in China

目录

Contents

特殊效果颜料 / Effect Pigments

铝粉浆颜料 - 适用于溶剂型涂料 / Aluminum Pastes for Solvent Borne Coatings	
• 标准非浮型铝粉浆 / Standard Non-leafing Aluminum Pigment Pastes	6
• 适用于罐听和卷材涂料的铝粉浆 / Aluminium Pigment Pastes for Can and Coil Coatings	8
• STAPA® Siltallux 色特亮铝粉浆 / Aluminum Pigment Pastes	10
• 金属效果银白型铝粉浆 / Metallic Effect Type Aluminum Pigment Pastes	10
• 金属闪光型铝粉浆 / Metallic Sparkle Type Aluminum Pigment Pastes	12
• 金属光亮型铝粉浆 / Metallic Luster Type Aluminum Pigment Pastes	14
• 高亮度铝粉浆 / Super Bright Aluminum Pigment Pastes	16
• STAPA® Siltallux 色特亮高端银元型铝粉浆 / Premium Silver Dollar Alu Pastes	16
 真空镀铝金属颜料悬浮液 - 适用于涂料和印刷应用	
Vacuum Metallized Pigments for Chrome Effects for Coatings and Graphic Arts	
• METALURE® 真空镀铝悬浮液 / Aluminum Pigment Dispersions	18
• METALURE® Prismatic 彩虹效果真空镀铝悬浮液 / Rainbow Effect	20
 条状铝颜料 - 适用于溶剂型涂料和印刷应用	
Aluminum Pigment Pellets for Solvent Borne Coatings and Graphic Arts	
• ALUDUR 无尘条状铝颜料 / Non-dusting Pigment Pellets	22
 特殊制备铝颜料 - 适用于塑料 /	
Dust free Aluminum Pigment Pellets and de-dusted Pigments for Plastics	
• MASTERSAFE ZP C 松散颗粒铝颜料 / De-dusted Aluminum Pigment Preparations	24
• MASTERSAFE ZP B 紧致条状铝颜料 / Aluminum Pigment Pellets	24
 树脂包覆铝粉浆颜料 - 适用于溶剂型涂料 /	
Polymer Coated Aluminum Pastes for Solvent Borne Coatings	
• SILBERCOTE 高耐化学性铝粉浆 / High Chemical Resistance	26
 特殊制备铝颜料 - 适用于水性涂料和印刷应用 /	
Dust free Aluminum Pigment Pellets for Water Borne Coatings and Graphic Arts	
• HYDROMIC DF 稳定型条状铝颜料 / Passivated Aluminum Pelletized Pigment	28
 铝粉浆颜料 - 适用于水性涂料和印刷应用	
Aluminum Pigment Pastes for Water Borne Coatings and Graphic Arts	
• SILBERCOTE AQ 硅包覆铝粉浆 / Silica Encapsulated Aluminum Pigment Pastes	30
• SILBERCOTE AQ 硅包覆铝粉浆 / Silica Encapsulated Aluminum Pigment Pastes	32
• SILBERCOTE AQ JR 硅包覆真空镀铝悬浮液 / Silica Encapsulated VMP Dispersions	34
 铝粉浆颜料 - 适用于溶剂型印刷应用 /	
Aluminum Pigment Pastes for Solvent Borne Graphic Arts	
• ROTOVARIO 铝粉浆 / Aluminum Pigment Pastes	36
 金属颜料浆 - 适用于 UVLED 印刷应用 /	
Metallic Pigment Pastes for UV/LED Graphic Arts	
• ROTOVARIO 金属颜料浆 / Metallic Pigment Pastes	38

金属效果油墨 - 适用于传统型胶版印刷 / Metallic Inks for Conventional Offset Printing	
• UNIPAK 金属效果胶印油墨 / Metallic Offset Inks	40
金属效果油墨 - 适用于 UV/LED 胶版印刷 / Metallic Inks for UV/LED Offset Printing	
• METALSTAR UV/LED 金属效果胶印油墨 / Metallic Offset Inks	42
• TOPSTAR UV/LED 超高金属感胶印油墨 / Ultra Brilliant Offset Inks	44
金属效果油墨 - 适用于水性柔版印刷 / Metallic Inks for Waterborne Flexo Printing	
• ROTOSTAR Aqua 金属效果柔印油墨 / Metallic Flexo Inks	46
金属效果油墨 - 适用于 UV/LED 柔版印刷 / Metallic Inks for UV/LED Flexo Printing	
• ROTOSTAR UV/LED 金属效果柔印油墨 / Metallic Flexo Inks	48
• ULTRASTAR UV/LED 镜面效果柔印油墨 / Mirror Effect Flexo Inks	50
质量控制/检验方法 / Quality control/Testing methods	52
激光粒径测定 / Laser granulometer	54
爱卡 – 全球性的创新 / ECKART – Innovations worldwide	55
筛分标准比较表 / Comparative table of sieving standards	56



工业涂料
Industrial Coatings



汽车涂料
Automotive Coatings



印刷应用
Printing



塑料应用
Plastics



玉米片型
Cornflakes



银元型
Silver Dollars



表面抛光型
Polished Flakes



真空镀铝型
VMP



高金属效果
High Metallic Effect



标准金属效果
Standard Metallic Effect



窄粒径分布
Narrow PSD



宽粒径分布
Wide PSD



颗粒厚度
Particle Thickness







从薄到厚
From Thin to Thick

Aluminum Pigment Pastes

for Solvent Borne Coating Applications

铝粉浆颜料

适用于溶剂型涂料



These cornflake types provide a smooth film formation with silver-grey to silver-white color shade. Characterized by good hiding power and smooth metallic effect, they are developed to be used in solvent based coatings and paints. Usual fields of application are e.g. coil and home appliance coatings.

本系列产品为玉米片型，成膜平整，呈银灰到银白色相。它们具有良好遮盖力和平滑金属效果，适用于溶剂型涂料体系，例如家电和卷材涂料。

型号/Type	颜料形状 / Pigment shape	非挥发份(颜料)/ Non volatile content (pigment)	漂浮特性/ Leafing property	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 or ISO 1247	产地/ Origin
		%		*	D50 约/approx. [µm] **	不低于 / min.	
1200N	玉米片型 / Cornflake	64	非浮型 / Non-leafing	TE / SA	18	99.0% < 45µm (325目)	济南 / Jinan
1213N		65			14	99.5% < 45µm (325目)	济南 / Jinan
1215N		65			16	99.5% < 45µm (325目)	济南 / Jinan
1260N		62			12	99.5% < 45µm (325目)	济南 / Jinan
1270N		62			11	99.8% < 45µm (325目)	济南 / Jinan
YSP-28AS		65			16	99.5% < 45µm (325目)	济南 / Jinan

* TE = D40 溶剂油 /Mineral spirit D40
SA = 石脑油/Solvent naphtha

** 珠海基地采用 Sympatec 设备，济南基地采用 Malvern 设备 /
Test in Zhuhai with Sympatec, test in Jinan with Malvern

Aluminum Pigment Pastes
for Solvent Borne Coating Applications

铝粉浆颜料
适用于溶剂型涂料



For can and coil coatings, these fine cornflake grades show superior hiding power and orientation when applied in can coating and coil coating film.

该系列玉米片型颜料适用于罐听涂料和卷材涂料，具有优秀的遮盖力和颜料定向性能。

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 or ISO 1247 不低于 min.	产地/ Origin
EFNAP	玉米片型 / Cornflake	%	*	D50 约/approx. [µm] **	99.9% < 45µm (325目)	济南 / Jinan

* TE = D40 溶剂油 /Mineral spirit D40
SA = 石脑油/Solvent naphtha

** 珠海基地采用 Sympatec 设备, 济南基地采用 Malvern 设备 /
Test in Zhuhai with Sympatec, test in Jinan with Malvern

Aluminum Pigment Pastes

for Solvent Borne Coating Applications

铝粉浆颜料

适用于溶剂型涂料



STAPA®

These silver dollar grades show clear and white metallic effects. Usual fields of application are e.g. coil coatings, home appliance coatings etc. Depending on the formulation and application, automotive OEM and refinish requirements can also be achieved.

该系列银元型颜料展现出清晰、亮白的金属效果，通常应用领域包括卷材涂料、家用电器涂料等。根据配方和应用，它们还能够满足汽车原厂和修补漆的要求。

In comparison to the structured appearance of SILTALLUX, LX series shows more hiding power and structure-less effects.

与 SILTALLUX 相比，LX 系列具有更强的遮盖力和更细腻的效果。

STAPA®	颜料形状 / Pigment shape	非挥发份(颜料)/ Non volatile content (pigment)	漂浮特性/ Leafing property	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 or ISO 1247	产地/ Origin
型号 /Type		%		*	D50 约 /approx. [µm] **	不低于 / min.	
SILTALLUX® 8620	银元型 / Silverdollar	70	非浮型 / Non-leafing	TA / SA	54	99.8% < 71µm	珠海 / Zhuhai
SILTALLUX® 8625		70			47	99.8% < 71µm	珠海 / Zhuhai
SILTALLUX® 8640		70			38	98.5% < 40µm	珠海 / Zhuhai
SILTALLUX® 8755		70			23	99.0% < 25µm	珠海 / Zhuhai
SILTALLUX® 8765		70			21	99.5% < 25µm	珠海 / Zhuhai
SILTALLUX® 8770		74			21	99.5% < 25µm	珠海 / Zhuhai
SILTALLUX® 8775		70			18	99.5% < 25µm	珠海 / Zhuhai
SILTALLUX® 8380		65			15	99.5% < 25µm	珠海 / Zhuhai
SILTALLUX® 8790		65			12	99.5% < 25µm	珠海 / Zhuhai
LX-4060	银元型 / Silverdollar	65	非浮型 / Non-leafing	TE	6	99.9% < 45µm (325目)	济南 / Jinan
LX-4080		65			8	99.9% < 45µm (325目)	济南 / Jinan
LX-4010		65			10	99.9% < 45µm (325目)	济南 / Jinan
LX-4120		70			12	99.8% < 45µm (325目)	济南 / Jinan
LX-4160		65			16	99.5% < 45µm (325目)	济南 / Jinan

* TE = D40 溶剂油 /Mineral spirit D40
TA = D60 溶剂油 /Mineral spirit D60
SA = 石脑油/Solvent naphtha

** 珠海基地采用 Sympatec 设备，济南基地采用 Malvern 设备 /
Test in Zhuhai with Sympatec, test in Jinan with Malvern

Aluminum Pigment Pastes

for Solvent Borne Coating Applications

铝粉浆颜料

适用于溶剂型涂料



Metallic Sparkle Type

金属闪光型铝粉浆

These silver dollar grades show excellent brightness and strong sparkling effect combined with good hiding power. Usual fields of application are e.g. high quality coil coatings, home appliance coatings etc. Depending on the formulation and application, automotive OEM and refinish requirements can also be achieved.

该系列银元型颜料兼具优异的亮度和强烈的闪烁效果，同时具备良好的遮盖力。常见的应用领域包括优质卷材涂料、家用电器涂料等。根据配方和应用，它们也能够满足汽车原厂和修补漆的要求。

型号 / Type	颜料形状 / Pigment shape	非挥发份(颜料)/ Non volatile content (pigment)	漂浮特性 / Leafing property	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 ISO 1247	产地 / Origin
		%		*	D50 约 / approx. [µm] **	不低于 / min.	
LX-37S	银元型 / Silverdollar	70	非浮型 / Non-leafing	TE / SA	36	99.0% < 45µm (325目)	济南 / Jinan
LX-337S		70			32	99.0% < 45µm (325目)	济南 / Jinan
LX-318S		70			21	99.5% < 45µm (325目)	济南 / Jinan
LX-315S		70			15	99.8% < 45µm (325目)	济南 / Jinan
LX-313S		70			16	99.5% < 45µm (325目)	济南 / Jinan
LX-18S		70			17	99.5% < 45µm (325目)	济南 / Jinan
LX-374S		70			50	98.0% < 75µm (200目)	济南 / Jinan
LX-353SA		70			52	98.0% < 75µm (200目)	济南 / Jinan
LX-353S		70			42	98.0% < 58µm (250目)	济南 / Jinan

* TE = D40 溶剂油 / Mineral spirit D40
SA = 石脑油 / Solvent naphtha
** 采用 Malvern 设备 / Test with Malvern

Aluminum Pigment Pastes

for Solvent Borne Coating Applications

铝粉浆颜料

适用于溶剂型涂料



Metallic Luster Type

金属光亮型铝粉浆

These high-end silver dollar grades convince by their unique whiteness and brightness, combined with a wide spectrum of optical effects. The pure metallic and structure-less effects make them suitable for a variety of paints such as automotive coatings including OEM, refinish and accessories, for coil coating and electronic appliance paints.

该系列高端银元型颜料凭借其独特的白度和亮度，以及丰富的光学效果，深受青睐。其纯净的细腻金属效果使其适用于多种涂料，如汽车涂料（包括原厂、修补漆及配件漆）、卷材涂料和电子电器涂料等。

型号 / Type	颜料形状 / Pigment shape	非挥发份(颜料) / Non volatile content (pigment)	漂浮特性 / Leafing property	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 ISO 1247	产地 / Origin
		%		*	D50 约 / approx. [µm] **	不低于 / min.	
LX-6319	银元型 / Silverdollar	70	非浮型 / Non-leafing	TE / SA	19	99.5% < 45µm (325目)	济南 / Jinan
LX-6830		70			32	99.0% < 45µm (325目)	济南 / Jinan
LX-7200		70			18	99.5% < 45µm (325目)	济南 / Jinan
LX-7210		70			21	99.5% < 45µm (325目)	济南 / Jinan
LX-7800B		70			12	99.9% < 45µm (325目)	济南 / Jinan
LX-7800A		70			10	99.9% < 45µm (325目)	济南 / Jinan
LX-7901		65			13	99.9% < 45µm (325目)	济南 / Jinan
LX-7900A		65			10	99.9% < 45µm (325目)	济南 / Jinan
LX-8521		70			21	99.5% < 45µm (325目)	济南 / Jinan
LX-8529		70			17	99.5% < 45µm (325目)	济南 / Jinan
LX-9800A		70			14	99.9% < 45µm (325目)	济南 / Jinan
LX-9812		70			12	99.9% < 45µm (325目)	济南 / Jinan
LX-9806		70			12	99.9% < 45µm (325目)	济南 / Jinan

* TE = D40 溶剂油 / Mineral spirit D40
SA = 石脑油 / Solvent naphtha
** 采用 Malvern 设备 / Test with Malvern

Aluminum Pigment Pastes

for Solvent Borne Coating Applications

铝粉浆颜料

适用于溶剂型涂料



STAPA®

Super Bright Series

These silver dollar pigments have nearly no scattering properties but strong metallic effects and flop even when tinted with organic pigments. Depending on the formulation and application e.g. automotives, exterior/interior trim and high-end 3C applications, the pigments can fulfill certain stability requirements.

高亮度铝粉浆

该系列银元型颜料几乎没有散射特性，即使与有机颜料混合使用，也能呈现出强烈的金属效果和随角异色特性。根据配方和应用，如汽车涂料、内外饰涂料及高端 3C 应用，这些颜料都能够满足特定的稳定性要求。

型号 / Type	颜料形状 / Pigment shape	非挥发份(颜料) / Non volatile content (pigment) %	漂浮特性 / Leafing property	溶剂 / Solvent *	平均粒径 / Average particle size D50 约 / approx. [µm] **	有机溶剂湿法筛析 / Screen Analysis/wet sieving with organic solvents as rinsing liquid 依据/acc. to ISO 1247 不低于 / min.	产地 / Origin
SFB-9060	银元型 / Silverdollar	74	非浮型 / Non-leafing	TE / SA	6	99.9% < 45µm (325目)	济南 / Jinan
SFB-9070		74			7	99.9% < 45µm (325目)	济南 / Jinan
SFB-9080		74			8	99.9% < 45µm (325目)	济南 / Jinan
SFB-9010		74			10	99.9% < 45µm (325目)	济南 / Jinan
SFB-9012		74			12	99.9% < 45µm (325目)	济南 / Jinan
SFB-9580		70			8	99.9% < 45µm (325目)	济南 / Jinan
SFB-9510		70			10	99.9% < 45µm (325目)	济南 / Jinan
SFB-9512		72			12	99.9% < 45µm (325目)	济南 / Jinan
RD-26060	银元型 / Silverdollar	72	非浮型 / Non-leafing	TE / SA	6	99.9% < 45µm (325目)	济南 / Jinan
RD-26080		72			8	99.9% < 45µm (325目)	济南 / Jinan
RD-26010		72			10	99.9% < 45µm (325目)	济南 / Jinan
SILTALLUX® 8940	银元型 / Silverdollar	74	非浮型 / Non-leafing	TA / SA	24	99.5% < 25µm	珠海 / Zhuhai
SILTALLUX® 8960		69			16	99.5% < 25µm	珠海 / Zhuhai
SILTALLUX® 8980		68			13	99.5% < 25µm	珠海 / Zhuhai
SILTALLUX® 8990		66			12	99.5% < 25µm	珠海 / Zhuhai
SILTALLUX® 9990		75			11	99.5% < 25µm	珠海 / Zhuhai

* TE = D40 溶剂油 / Mineral spirit D40
TA = D60 溶剂油 / Mineral spirit D60
SA = 石脑油 / Solvent naphtha
** 采用 Malvern 设备 / Test with Malvern

Vacuum Metallized Pigment Dispersions

for Coating and Graphic Art Applications



METALURE stands for highly brilliant aluminum pigment dispersions. Our PVD (physical vapour deposition) process provides very special effects: from light to dark, from rainbow to extreme mirror like effects. These products perform well in solvent borne coating systems and for different market segments for solvent borne gravure and flexo inks to replace foil stamping. Different solvents on request.

The new METALURE UV/LED pastes offer the opportunities to create UV/LED inks with good press stability and over printability properties with bright and mirror-like effects on different substrates.

真空镀铝悬浮液

适用于涂料和印刷应用



METALURE 美特亮是具有超高亮效果的铝颜料悬浮液。PVD 物理气相沉积生产工艺实现了其独特的效果：从白亮到黑亮，从彩虹效果到极限的类镜面效果。该系列产品在溶剂型涂料体系中具有优异的性能，并且可用于配制溶剂型凹印和柔印油墨用以替代烫金工艺。不同溶剂版本可按需提供。

METALURE UV/LED 的新产品可用于配制具有良好印刷稳定性和叠印性能的 UV/LED 油墨，在多种底材上展现出明亮、镜面般的金属光泽效果。

METALURE®	非挥发份(颜料)/ Non volatile content (pigment)	溶剂/ Solvent	平均粒径 Average particle size	涂料 / Coatings	胶版印刷 / Offset Printing	丝网印刷 / Screen Printing	凹版印刷 / Gravure Printing	柔版印刷 / Flexo Printing	特点 / Remarks	产地/ Origin
型号/Type	%		D50 约/approx. [µm] *							
Non Leafing / 非浮型										
100632 PM	10	丙二醇甲醚 / Methoxy Propanol	6	●		●	●	●	白亮镜面 / Light Mirror	珠海 / Zhuhai
101003 AE	10	乙酸乙酯 / Ethyl Acetate	13	●		●	●	●	白亮镜面 / Light Mirror	珠海 / Zhuhai
101005 AE	10	乙酸乙酯 / Ethyl Acetate	13	●		●	●	●	黑亮镜面 / Dark Mirror	珠海 / Zhuhai
101008 AE	10	乙酸乙酯 / Ethyl Acetate	10	●		●	●	●	黑亮镜面 / Dark Mirror	珠海 / Zhuhai
151020 PM	15	丙二醇甲醚 / Methoxy Propanol	10	●		●	●	●	白亮镜面 / Light Mirror	珠海 / Zhuhai
150818 PM	15	丙二醇甲醚 / Methoxy Propanol	8	●		●	●	●	黑亮镜面 / Dark Mirror	珠海 / Zhuhai
150215 PM	15	丙二醇甲醚 / Methoxy Propanol	1.5	●		●	●	●	蓝相镜面 / Bluish Mirror	珠海 / Zhuhai
150512 PM	15	丙二醇甲醚 / Methoxy Propanol	5	●		●	●	●	黑亮镜面 / Dark Mirror	珠海 / Zhuhai
150306 MA	15	丙二醇甲醚醋酸酯 / Methoxy Propyl Acetate	3	●		●	●	●	高黑亮镜面 / Very Dark Mirror	珠海 / Zhuhai
UV/LED 151003A Paste	15	丙烯酸酯单体 / Acrylate Monomer	10	●	●	●	●	●	白亮镜面 / White Mirror	珠海 / Zhuhai
UV/LED 151003B Paste	15	丙烯酸酯单体 / Acrylate Monomer	10	●	●	●	●	●	白亮镜面 / White Mirror	珠海 / Zhuhai
UV/LED 151005 Paste	15	丙烯酸酯单体 / Acrylate Monomer	10	●	●	●	●	●	黑亮镜面 / Dark Chrome Mirror	珠海 / Zhuhai

* 采用 Sympatec 设备 / Test with Sympatec

Vacuum Metallized Pigment Dispersions

for Coating and Graphic Art Applications



METALURE and Prismatic UV/LED pastes are made via PVD routes also known under abbreviations like VMP or VMF. They are very thin and foil like. For the stability in energy-curing systems these products are surface modified and pastes in UV/LED reactive media.

- High gloss and brilliance
- Good hiding power
- Semi-leafing
- Good over printability
- High formulation freedom due to high solid content (15% Aluminum)
- Easy to disperse
- Mineral oil free
- Non-dangerous goods

Prismatic UV/LED rainbow pigment pastes are UV/LED stabilised with different particle sizes for UV/LED flexo, screen and offset ink formulations. Prismatic rainbow effects are the trending effects in different markets.

真空镀铝悬浮液

适用于涂料和印刷应用



METALURE 和 Prismatic UV/LED 采用 PVD (物理气相沉积) 工艺制成，也被称为 VMP 或 VMF。这类颜料厚度极薄。为适应能量固化体系的稳定性要求，这些产品经过表面处理，并以 UV/LED 反应性介质为载体制成浆状。

- 高光泽和高金属效果
- 良好的遮盖力
- 半漂浮型
- 良好的可叠印性
- 高固含量带来的高配方自由度 (铝含量 15%)
- 容易分散
- 不含矿物油
- 非危险品

Prismatic UV/LED 彩虹效果颜料浆是 UV/LED 稳定型颜料，包含多个粒径规格，适用于 UV/LED 柔印、丝印和胶印油墨。Prismatic 彩虹效果是目前在多个市场中的流行效果。

METALURE® Prismatic	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	产地/ Origin
型号/Type	%		D50 约/approx. [µm] *						
100560 MA	10	丙二醇甲醚醋酸酯 / Methoxy Propyl Acetate	5	•	•	•	•	极细彩虹效果 / Very Fine Rainbow	珠海 / Zhuhai
101040 MA	10		10	•	•	•	•	细彩虹效果 / Fine Rainbow	珠海 / Zhuhai
102004 MA	10		20	•	•			彩虹效果 / Rainbow Effect	珠海 / Zhuhai
205008 MA	20		50	•	•			粗颗粒彩虹效果 / Sparkling Rainbow	珠海 / Zhuhai
UV/LED 150502 Paste	15	丙烯酸酯单体 / Acrylate Monome	5	•	•	•	•	极细彩虹效果 / Very Fine Rainbow	珠海 / Zhuhai
UV/LED 151004 Paste	15		10	•	•	•	•	细彩虹效果 / Fine Rainbow	珠海 / Zhuhai
UV/LED 152004 Paste	15		20	•	•			彩虹效果 / Rainbow Effect	珠海 / Zhuhai
UV/LED 155008 Paste	15		50	•	•			粗颗粒彩虹效果 / Sparkling Rainbow	珠海 / Zhuhai

* 采用 Sympatec 设备 / Test with Sympatec

Aluminum Pigment Pellets

for Solvent Borne Coating and Graphic Art Applications

条状铝颜料

适用于溶剂型涂料和印刷应用



ALUDUR

ALUDUR is one of ECKART’s pellet series. They are classified as non-dangerous goods, there are positive safety and regulatory aspects with respect to handling, logistics and warehouse licenses.

Furthermore, their high pigment content gives a high degree of formulation freedom. In general, they can be used in every solvent-borne system for coatings and inks and be a good alternative for pastes, if handling recommendations for an optimal dispersion are followed.

There are different cornflakes and silver dollars already available. ALUDUR LA 8960 NL, ALUDUR LA 8980 NL and ALUDUR LA 0905 NL are three new silver dollar grades with superior appearances with respect to gloss and brilliance, balancing good hiding power. The new products convince with very good tinting properties, best opacity and smooth pigment lay down on all kinds of substrates.

- High gloss and brilliance
- Good hiding power
- Non-leafig
- Good adhesion
- High formulation freedom
- Improved formulation for less odour
- Easy dosing
- Easy dispersion
- Dust free
- Non-dangerous goods
- Fair chemical resistance
- Long shelf-life
- DPA and APEO free

ALUDUR 是爱卡的条状铝颜料系列。该系列被归类为非危险品，因此在操作、物流运输和仓储许可方面具有显著的安全性和合规优势。

此外，ALUDUR 具有高颜料含量，赋予配方极大的自由度。通常可应用于各种溶剂型涂料和油墨体系中，只要遵循推荐的分散操作方式，就可作为浆状颜料的理想替代方案。

该系列已有多款玉米片型和银元型产品上市。ALUDUR LA 8960 NL、ALUDUR LA 8980 NL 和 ALUDUR LA 0905 NL 是三款全新的银元型产品，具有优异的光泽和金属感，同时兼顾良好的遮盖力和出色的调色性能。

在各种底材上，ALUDUR LA 8960 NL、ALUDUR LA 8980 NL 和 ALUDUR LA 0905 NL 展现出极佳的不透明度和均匀的颜料铺展表现。

- 高光泽高金属感
- 良好遮盖力
- 非浮型
- 良好附着力
- 高配方自由度
- 优化的低气味配方
- 易于添加
- 易于分散
- 无尘
- 非危险品
- 合理的化学耐性
- 长有效期
- 不含 DPA 或 APEO

ALUDUR	Grade 型号	Color Shade 色相	Application 应用				Leafig Property 漂浮特性	Pigment Shape 颜料形状	Average particle size 平均粒径 D50 [µm] 约 Approx. *	Pigment Content 颜料含量 %	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	产地/ Origin
			Coating 涂料	Flexo 柔印	Gravure 凹印	Screen 丝印									
	LA 8960 NL	银 / Silver	•	•	•	•	Non-leafig / 非浮型	Silverdollar 银元型	16	80	•	•	< 0.1%	•	珠海 / Zhuhai
	LA 8980 NL		•	•	•	•		Silverdollar 银元型	13	80	•	•	< 0.1%	•	珠海 / Zhuhai
	LA 0905 NL		•	•	•	•		Silverdollar 银元型	9	80	•	•	< 0.1%	•	珠海 / Zhuhai
	LA 90 NL		•	•	•	•		Silverdollar 银元型	12	85	•	•	< 0.1%	•	珠海 / Zhuhai
	LA 15 NL		•	•	•	•		Cornflake 玉米片型	11	85	•	•	< 0.1%	•	珠海 / Zhuhai

* 采用 Sympatec 设备 / Test with Sympatec

Aluminum Pigment Preparations
for Plastic Applications



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

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

MASTERSAFE 推荐用于塑料应用，所有规格通过 FDA 认证。

我们提供两种无尘且无气味的产品制备形态，松散颗粒状和紧致条状。

特殊制备铝颜料
适用于塑料



MASTERSAFE	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	产地 / Origin
型号 / Type		%		D50 约 / approx. [µm] *		
ZP 10-20C	Cornflake / 玉米片型	80	聚烯烃 / Polyolefin	11	松散无尘 / De-dusted pigments	珠海 / Zhuhai
ZP 11-20C	Silverdollar / 银元型	80	聚烯烃 / Polyolefin	12	松散无尘 / De-dusted pigments	珠海 / Zhuhai
ZP 15-20C	Silverdollar / 银元型	80	聚烯烃 / Polyolefin	16	松散无尘 / De-dusted pigments	珠海 / Zhuhai
ZP 19-20C	Silverdollar / 银元型	80	聚烯烃 / Polyolefin	19	松散无尘 / De-dusted pigments	珠海 / Zhuhai
ZP 34-20C	Silverdollar / 银元型	80	聚烯烃 / Polyolefin	36	松散无尘 / De-dusted pigments	珠海 / Zhuhai
ZP 54-20C	Silverdollar / 银元型	80	聚烯烃 / Polyolefin	54	松散无尘 / De-dusted pigments	珠海 / Zhuhai
ZP 09-20B	Silverdollar / 银元型	80	聚烯烃 / Polyolefin	10	紧致条状 / Pellets	珠海 / Zhuhai
ZP 11-30B	Silverdollar / 银元型	70	聚烯烃 / Polyolefin	12	紧致条状 / Pellets	珠海 / Zhuhai
ZP 12-20B	Silverdollar / 银元型	80	聚烯烃 / Polyolefin	14	紧致条状 / Pellets	珠海 / Zhuhai
ZP 14-30B	Silverdollar / 银元型	70	聚烯烃 / Polyolefin	15	紧致条状 / Pellets	珠海 / Zhuhai
ZP 15-20B	Silverdollar / 银元型	80	聚烯烃 / Polyolefin	17	紧致条状 / Pellets	珠海 / Zhuhai
ZP 23-10B	Silverdollar / 银元型	90	聚烯烃 / Polyolefin	25	紧致条状 / Pellets	珠海 / Zhuhai
ZP 54-20B	Silverdollar / 银元型	80	聚烯烃 / Polyolefin	54	紧致条状 / Pellets	珠海 / Zhuhai

* 采用 Sympatec 设备 / Test with Sympatec

Chemical Resistant Aluminum Pigment Pastes

for Solvent Borne Coating Applications

高耐化学性铝粉浆颜料

适用于溶剂型涂料



SILBERCOTE

Polymer Encapsulation Type

These polymer coated silver dollar and cornflake grades provide a wide range of metallic effects, combined with excellent acid / alkaline resistance, color stability and good adhesion features.

Usual fields of usage are high chemical resistance requiring applications like e.g. coil coatings and plastic coatings.

树脂包覆型铝粉浆

该系列树脂包覆的银元型和玉米片型颜料提供多种金属效果，具有优异的耐酸碱性、色彩稳定性和良好的附着性能。

常见的应用领域包括需要高化学耐受性的涂料，如卷材涂层和塑料涂层。

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] **	有机溶剂湿法筛析 / Screen Analysis/wet sieving with organic solvents as rinsing liquid 依据 / acc. to ISO 1247 不低于 min. [%]	产地 / Origin
SBC J72601	58	TE / SA	32	99.0% < 45µm (325目)	济南 / Jinan
SBC J72401	55		23	99.0% < 45µm (325目)	济南 / Jinan
SBC J72301	53		15	99.0% < 45µm (325目)	济南 / Jinan
SBC J72010	53		10	99.8% < 45µm (325目)	济南 / Jinan
SBC J7215	53		15	99.0% < 45µm (325目)	济南 / Jinan
SBC J7310	60		10	99.8% < 45µm (325目)	济南 / Jinan
SBC J7320	60		20	99.5% < 45µm (325目)	济南 / Jinan
SBC J7408	62		8	99.9% < 45µm (325目)	济南 / Jinan
SBC J7409	62		9	99.9% < 45µm (325目)	济南 / Jinan
SBC J75001	60		7.5	99.9% < 45µm (325目)	济南 / Jinan
SBC JRD26060	53	TE / SA	6	99.5% < 45µm (325目)	济南 / Jinan
SBC JRD26080	53		8	99.5% < 45µm (325目)	济南 / Jinan
SBC JRD26010	53		10	99.5% < 45µm (325目)	济南 / Jinan

* TE = D40 溶剂油 / Mineral spirit D40
SA = 石脑油 / Solvent naphtha

** 采用 Malvern 设备 / Test with Malvern



HYDROMIC DF

HYDROMIC DF is an additive stabilized non-leaving aluminum pigments series in solvent free pelletized form. HYDROMIC DF is carried by a widely compatible PE resin for water borne coatings or printing inks.

HYDROMIC DF 是一种采用添加剂稳定的非浮型条状铝颜料,它不含溶剂,由相容性良好的 PE 树脂承载,可用于水性涂料或水性印刷油墨。

The advantages of HYDROMIC DF are,

HYDROMIC DF 的优点包括:

- Safe and environmental friendly
 - Easy to disperse
 - Biocides, APEO free
 - Water free
 - Dust free
 - Airfreight possible
- 安全环保
 - 易于分散
 - 不含灭微生物剂或 APEO
 - 不含水
 - 无尘
 - 适合空运

HYDROMIC DF	颜料形状 / Pigment shape	铝含量 / Aluminum content	平均粒径 / Average particle size	载体 / Carrier	工业涂料 / Industrial coatings	印刷 / Graphic arts	产地 / Origin
型号 /Type		%	D50 约/approx. [µm] *		- 塑料涂料/ Plastic coatings - 轮毂涂料/ Wheel coatings		
8620	银元型 / Silverdollar	80	54	PE 树脂 / PE resin	+		珠海 / Zhuhai
8640	银元型 / Silverdollar	80	37		+		珠海 / Zhuhai
8775	银元型 / Silverdollar	80	19		+	+	珠海 / Zhuhai
8790	银元型 / Silverdollar	78	13		+	+	珠海 / Zhuhai

推荐 / Recommendation
+ 适合/建议 suitable/recommended

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

* 采用 Sympatec 设备 / Test with Sympatec

Aluminum Pigment Pastes

for Water Borne Coating Applications

铝粉浆颜料

适用于水性涂料



SILBERCOTE

AQ Series SiO₂ Encapsulated Aluminum Pigments 二氧化硅包覆型铝粉浆

These high-end silica encapsulated silver dollar grades show smooth optical effects combined with excellent gassing stability, chemical resistance, weather resistance and also circulation stability. They are widely used in many types of water borne paints and coatings such as automotive OEM / refinish paints, general industrial paints, electronic appliances coatings etc.

该系列高端二氧化硅包覆银元型颜料展现出平滑的光学效果，具有优异的耐发气性、耐化学性、耐候性以及循环管线稳定性。它们广泛应用于多种水性涂料中，如汽车原厂/修补漆、一般工业涂料、电子电器涂料等。

SILBERCOTE	非挥发份(颜料)/ Non volatile content (pigment)	平均粒径/ Average particle size	溶剂/ Solvent	有机溶剂湿法筛析 / Screen Analysis/wet sieving with organic solvents as rinsing liquid	产地/ Origin
	型号/Type	D50 约/approx. [µm] **	*	依据/acc. to ISO 1247 不低于 min. [%]	
	%				
SBC AQ J9580	60	8	PM	99.9% < 45µm (325目)	济南 / Jinan
SBC AQ J9510	60	10	PM	99.9% < 45µm (325目)	济南 / Jinan
SBC AQ J9512	60	12	PM	99.9% < 45µm (325目)	济南 / Jinan
SBC AQ J9515	62	15	PM	99.8% < 45µm (325目)	济南 / Jinan
LEP 21951	60	18	PM	99.5% < 45µm (325目)	济南 / Jinan
LEP 21965	65	23	PM	99.5% < 45µm (325目)	济南 / Jinan
LEP 21966	60	21	PM	99.5% < 45µm (325目)	济南 / Jinan
LEP 21701	60	20	PM	99.5% < 45µm (325目)	济南 / Jinan
LEP 20613	60	20.5	PM	99.5% < 45µm (325目)	济南 / Jinan

* PM = 丙二醇甲醚 / Methoxy propanol

** 采用 Malvern 设备 / Test with Malvern

Aluminum Pigment Pastes

for Water Borne Coating Applications

铝粉浆颜料

适用于水性涂料



SILBERCOTE

AQ Series SiO₂: Encapsulated Aluminum Pigments

These silica encapsulated silver dollar and cornflake grades show clear and white metallic effects combined with excellent gassing stability, chemical resistance, and weather resistance also circulation stability. They are widely used in many types of water borne paints and coatings such as automotive OEM / refinish paints, general industrial paints, electronic appliances coatings etc. RD grades in the series are with super fine and bright effects.

二氧化硅包覆型铝粉浆

该系列二氧化硅包覆的银元型和玉米片型颜料具有清晰和亮的金属效果，同时具备优秀的耐发气性、耐化学性、耐候性以及循环管线稳定性。它们广泛应用于多种水性涂料漆中，例如汽车原厂/修补漆、一般工业涂料、电子电器涂料等。其中的 RD 型号属于高亮度丝光型产品。

SILBERCOTE	非挥发份(颜料)/ Non volatile content (pigment)	平均粒径/ Average particle size	溶剂/ Solvent	有机溶剂湿法筛析 / Screen Analysis/wet sieving with organic solvents as rinsing liquid	产地/ Origin
型号 /Type	%	D50 约/approx. [µm] **	*	依据/acc. to ISO 1247 不低于 min. [%]	
SBC AQ J6852	65	52	PM	98.0% < 75µm (200目)	济南 / Jinan
SBC AQ J6837	62	37	PM	99.0% < 45µm (325目)	济南 / Jinan
SBC AQ J6834	62	34	PM	99.0% < 45µm (325目)	济南 / Jinan
SBC AQ J6829	59	29	PM	99.0% < 45µm (325目)	济南 / Jinan
SBC AQ J6822	57	22	PM	99.0% < 45µm (325目)	济南 / Jinan
SBC AQ J6818	60	18	PM	99.5% < 45µm (325目)	济南 / Jinan
SBC AQ J6814	54	14	PM	99.5% < 45µm (325目)	济南 / Jinan
SBC AQ J6812	54	13	PM	99.5% < 45µm (325目)	济南 / Jinan
SBC AQ J6811	53	11	PM	99.8% < 45µm (325目)	济南 / Jinan
SBC AQ J9010	58	12	PM	99.8% < 45µm (325目)	济南 / Jinan
SBC AQ J9070	52	9	PM	99.9% < 45µm (325目)	济南 / Jinan
SBC AQ J313S	60	18	PM	99.5% < 45µm (325目)	济南 / Jinan
SBC AQ J318S	60	21	PM	99.5% < 45µm (325目)	济南 / Jinan
SBC AQ J7901	53	14	PM	99.5% < 45µm (325目)	济南 / Jinan
SBC AQ STAR 018AP	60	18	PM	99.5% < 45µm (325目)	济南 / Jinan
SBC AQ STAR 012AP	60	13	PM	99.8% < 45µm (325目)	济南 / Jinan
SBC AQJ RD26060	60	6	PM	99.5% < 45µm (325目)	济南 / Jinan
SBC AQJ RD26080	60	8	PM	99.5% < 45µm (325目)	济南 / Jinan
SBC AQJ RD26010	60	10	PM	99.5% < 45µm (325目)	济南 / Jinan

* PM = 丙二醇甲醚 / Methoxy propanol

** 采用 Malvern 设备 / Test with Malvern

Vacuum Metallized Pigment Dispersions
for Water Borne Coating Applications

真空镀铝悬浮液
适用于水性涂料



SILBERCOTE

AQ JR Series SiO₂ Encapsulated Vacuum Metallized Pigments 二氧化硅包覆型真空镀铝金属颜料悬浮液

SBC AQ JR series is the mirror-like effect pigment dispersion for waterborne coating applications based on PVD/VMP pigments. SBC AQ JR 系列是基于 PVD/VMP 颜料的镜面效果颜料悬浮液，专为水性涂料应用设计。

These chrome-like pigments convince by high chemical and gassing stability in water borne paints and coatings, such as automotive APA/interior/exterior trim, wheel rim, electronic appliance and flexible packaging applications. 这些具有镀铬外观的颜料在水性涂料中表现出优异的耐化学性和耐发气性，广泛应用于汽车APA、内外饰、轮毂、电子电器及软包装等领域。

SILBERCOTE

	非挥发份(颜料)/ Non volatile content (pigment)	平均粒径/ Average particle size	溶剂/ Solvent	有机溶剂湿法筛析 / Screen Analysis/wet sieving with organic solvents as rinsing liquid	产地/ Origin
型号/Type	%	D50 约/approx. [µm] **	*	依据/acc. to ISO 1247 不低于 min. [%]	
SBC AQ JR8100	10	10	PM	99.9% < 45µm (325目)	济南 / Jinan
SBC AQ JR0910	10	10	PM	99.9% < 45µm (325目)	济南 / Jinan

* PM = 丙二醇甲醚 / Methoxy propanol
** 采用 Malvern 设备 / Test with Malvern

Aluminum Pigment Pastes

for Solvent Borne Graphic Art Applications



铝粉浆颜料

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	Color Shade 色相	Leafing Property 漂浮特性	Pigment Type 颜料形状	平均粒径 Average particle size D50 [µm] 约 Approx.	非挥发份(颜料)/ Non volatile content (pigment) %	Solvent 溶剂	Origin 产地
OSY-200S(H)	银 / Silver	Leafing / 浮型	Cornflake / 玉米片型	6 (Malvern)	65	Mineral oil / 矿物油	济南 / Jinan

Established pigment for silver offset inks with good effect and color stability.

适用于胶印油墨，具备良好效果和色泽稳定性的成熟铝颜料。

Grade 型号	Color Shade 色相	Application 应用			Leafing Property 漂浮特性	Pigment Type 颜料形状	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	Origin 产地
Cornflake standard effects, non-leafing and premium non-leafing 玉米片标准型，非浮型														
ROTOVARIO 800 901 NPAC	银 / Silver	●	●	-	非浮型 Non-leafing	玉米片型 Cornflake	10	65	NPAC 3)	●	●	< 0.1%	●	珠海 / Zhuhai
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	12	66	NPAC 3)	●	●	< 0.1%	●	珠海 / Zhuhai
ROTOVARIO 800 115	银 / Silver	●	●	-			12	66	EA 1)	●	●	< 0.1%	●	珠海 / Zhuhai
ROTOVARIO 800 955 NPAC	银 / Silver	●	●	-			9	67	NPAC 3)/ IL 4)	●	●	< 0.1%	●	珠海 / Zhuhai

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

* 采用 Sympatec 设备 / Test with Sympatec

Metallic Pigment Pastes

for UV/LED Graphic Art Applications



ROTOVARIO UV/LED pigments are UV stabilised bronze and silver pigment pastes for UV flexo, screen and offset inks. These pigments follow the trends of no or low VOC printing, which opens doors for UV/LED printing. Furthermore, sustainability aspects opens trends to use more inks than metalized paper or foil stamping. The new ROTOVARIO UV/LED pastes offer the opportunities to create UV/LED inks with good press stability and over printability properties with very good gold and silver metallic effects on different substrates.

- Good gloss and brilliance
- Good hiding power
- Semi-leafing
- Good over printability
- High formulation freedom due to high solid content (50% Aluminum, 84% bronze)
- Easy to disperse
- No VOC
- Non-dangerous goods (silver), non-flammable goods (bronze)

All raw materials used for manufacturing ROTOVARIO UV/LED 0605 Silver are listed in IECSC, EINECS, NZIoC, ECL and TSCA. The product is in accordance with Swiss Ordinance, RoHS and CONEG regulations. All raw materials used for manufacturing ROTOVARIO UV/LED 587 301 RG and 587 303 PG are listed in IECSC, ENCS, NZIoC, ECL and TSCA. The products are in accordance with Swiss Ordinance, RoHS and CONEG regulations.

ROTOVARIO UV/LED 587 301 RG and 0605 Silver do not contain >0.1% of any substance listed in the current Candidate List of SVHCs.

金属颜料浆

适用于 UV/LED 印刷应用



ROTOVARIO UV/LED 是 UV 稳定型铜金和铝颜料浆, 适用于配制能量固化型柔印、丝印和胶印油墨。该系列符合当前低 VOC 或无 VOC 印刷的发展趋势, 为 UV/LED 印刷技术打开了更多可能性。同时, 随着可持续发展理念的不断推进, 也带动了从镀铝底材和烫印工艺向金属效果油墨的转变。全新的 ROTOVARIO UV/LED 可配制出具备良好印刷稳定性和出色叠印性能的 UV/LED 油墨, 在多种底材上都能呈现出卓越的金金属色和银色效果。

由于采用了优质基础颜料, 该半漂浮型系列产品具有众多优点:

- 良好的光泽和高金属效果
- 良好的遮盖力
- 半漂浮型
- 良好的可叠印性
- 高固含量带来的高配方自由度 (铝粉浆固含 50%, 铜金浆固含 84%)
- 容易分散
- 不含 VOC
- 非危险品 (铝粉浆), 非可燃物 (铜金浆)

用于生产 ROTOVARIO UV/LED 0605 Silver 的所有原材料已列入 IECSC、EINECS、NZIoC、ECL 和 TSCA。该产品符合瑞士法规、RoHS 和 CONEG 法规的要求。用于生产 ROTOVARIO UV/LED 587 301 RG 和 587 303 PG 的所有原材料已列入 IECSC、ENCS、NZIoC、ECL 和 TSCA。两款产品同样符合瑞士法规、RoHS 和 CONEG 法规的要求。

ROTOVARIO UV/LED 587 301 RG 和 0605 Silver 不含当前高度关注物质 (SVHC) 候选清单中任一物质超过 0.1% 的含量。

Grade 型号	Application 应用				Pigment Type 颜料形状	Average particle size 平均粒径 D50 [µm] *	Pigment Conteaant / 颜料含量 %	Solvent 溶剂	Origin 产地
	Color Shade 色相	Offset 胶印	Flexo 柔印	Screen 丝印					
UV/LED 0605 Silver	银 / Silver	•	•	•	银元型 Silverdollar	6	50	丙烯酸酯单体 Acrylate monomer	珠海 / Zhuhai
UV/LED 587 301 RG	青金 / Rich Gold	•	•	•	玉米片型 Cornflake	3	84		珠海 / Zhuhai
UV/LED 587 303 PG	红金 / Pale Gold	•	•	•	玉米片型 Cornflake	3	84		珠海 / Zhuhai

* 采用 Sympatec 设备 / Test with Sympatec

Metallic Inks

for Conventional Offset Printing



UNIPAK is an established ECKART brand for leafing pigments containing offset inks. After re-organizing the product portfolio in Germany, there is still a need for economic offset inks. Even though, the UNIPAK bronze inks are formulated without mineral oil and could be used in conventional offset printing for food contact in some countries, the GMP production, which is required for European standards, is not fulfilled. This is the reason why this ink is not called "FPG".

UNIPAK 是爱卡旗下的经典品牌，是包含浮型颜料的传统胶印油墨系列。德国产品组合调整后，市场对经济型胶印油墨仍有持续需求。尽管 UNIPAK 铜金油墨的配方不含矿物油，在部分国家可应用于食品接触类的传统胶印印刷，但由于未达到欧洲标准所要求的 GMP 生产规范，因此该系列油墨未被归类为 "FPG" 食品包装级。

金属效果油墨

适用于传统胶版印刷



UNIPAK

型号 / Type	颜料类型 / Pigment type	平均粒径 / Average particle size	金属感 / Brilliance	遮盖力 / Hiding power	附着力 / Adhesion	可叠印性 / Over printability	不含钴燥油 / Cobalt Drier Free	不含矿物油 / Mineral Oil Free	色相 / Shade	产地 / Origin
9222 Z RG	玉米片型 / Cornflake	3	****	****	****	****	●	●	青金 / Rich gold	珠海 / Zhuhai
9224 Z PG		3	****	****	****	****	●	●	红金 / Pale gold	珠海 / Zhuhai
9410 Z Silver		6	****	****	****	****	●	-	银 / Silver	珠海 / Zhuhai

* 采用 Sympatec 设备 / Test with Sympatec

Metallic Inks

for UV/LED Offset Printing



METALSTAR UV/LED is the name of ECKART´s brilliant UV/LED offset series. It is a print ready ink with good press-stability and brilliant effects.

METALSTAR UV/LED series is ideally suited for offset printing on paper, board and folding cartons.

METALSTAR UV/LED 是爱卡的高金属感 UV/LED 胶印油墨系列。它们即可付印，具有优秀的金属感和良好的印刷稳定性。

METALSTAR UV/LED 系列理想适用于纸张、纸板和彩盒的胶版印刷。

金属效果油墨

适用于 UV/LED 胶版印刷



METALSTAR	颜料含量/ Pigment content	平均粒径/ Average particle size	金属感 / Brilliance	遮盖力 / Hiding power	附着力 / Adhesion	着色力 / Tinting strength	可叠印性 Over printability	黏度 / Viscosity	色相 / Shade	产地/ Origin
型号/Type	%	D50 约/approx. [µm] *						[Pa·s]		
UV/LED 21 7001 RG	40	3	****	****	***	****	****	30 - 75	青金 / Rich gold	珠海 / Zhuhai
UV/LED 21 7003 PG	40	3	****	****	***	****	****	30 - 75	红金 / Pale gold	珠海 / Zhuhai

* 采用 Sympatec 设备 / Test with Sympatec

Metallic Inks

for UV/LED Offset Printing



TOPSTAR UV/LED is ECKART’s brand name for ultra-brilliant, mirror-like UV/LED – offset inks. These inks are based on PVD/VMP/VMF pigments for highest gloss and brilliance.

TOPSTAR UV/LED offset inks follow the trends of no or low VOC printing, which opens doors for UV/LED printing. Furthermore, sustainability aspects opens trends to use more inks than metalized paper or foil stamping. The new TOPSTAR UV/LED inks offer the opportunity to print high brilliant mirror effects in UV/LED offset with good press stability and over printability.

TOPSTAR UV/LED 是爱卡推出的超高光泽镜面效果 UV/LED 胶印油墨。该系列基于 PVD/VMP/VMF 颜料，能够呈现极致的光泽和镜面效果。

TOPSTAR UV/LED 胶印油墨符合当前低 VOC 或无 VOC 的环保印刷趋势，为 UV/LED 印刷打开新机遇。同时，出于可持续发展的考虑，相较于镀铝底材或烫金，越来越多品牌选择通过油墨实现金属效果。全新 TOPSTAR UV/LED 油墨可在 UV/LED 胶印中呈现高光镜面效果，具备良好的印刷稳定性和套印适应性。

金属效果油墨

适用于 UV/LED 胶版印刷



TOPSTAR	平均粒径/ Average particle size	金属感 / Brilliance	遮盖力 / Hiding power	附着力 / Adhesion	着色力 / Tinting strength	可叠印性 / Over printability	不含矿物油 / Mineral oil free	黏度 / Viscosity	色相 / Shade	产地/ Origin
型号/Type	D50 约/approx. [μm] *							[Pa·s]		
UV/LED 0606	10	****	****	****	****	****	●	15 - 25	白亮镜面 / White Chrome Mirror	珠海 / Zhuhai
UV/LED 0607	10	****	***	****	****	****	●	15 - 25	高亮镜面 / Brilliant Chrome Mirror	珠海 / Zhuhai

* 采用 Sympatec 设备 / Test with Sympatec

Metallic Inks

for Waterborne Flexo Printing



ROTOSTAR Aqua FP 07 series is a water based flexo ink series based on bronze pigments. It is a print ready ink with good press-stability and results in brilliant effects.

ROTOSTAR Aqua FP 07 inks are suitable for flexo and tower coating printing applications on uncoated papers, boards and films.

ROTOSTAR Aqua FP 07 系列是基于铜金和颜料的水性柔版印刷油墨。它们是即用型油墨，具备良好的印刷稳定性，并能呈现出色的金属光泽效果。

ROTOSTAR Aqua FP 07 油墨适用于柔版印刷和塔式涂布印刷，适合用于未涂布纸张、纸板和薄膜等底材。

金属效果油墨

适用于水性柔版印刷



ROTOSTAR

型号 / Type	平均粒径 / Average particle size D50 约/approx. [µm] *	固含量 / Solid content	颜料含量 / Pigment content	颜料形状 / Pigment shape	pH 值 / Value	光泽 / Gloss	遮盖力 / Hiding power	黏度 / Viscosity	色相 / Shade	产地 / Origin
Aqua FP 07-19001 RG	6	65	40	玉米片型 / Cornflake	7 - 9.5	****	****	Din 4 mm 70 - 120s	青金 / Rich gold	珠海 / Zhuhai
Auqa FP 07-39001 PG	6	65	40			****	****		红金 / Pale gold	珠海 / Zhuhai
Aqua FP 07-41001 Silver	6	65	40			****	****		银 / Silver	珠海 / Zhuhai

* 采用 Sympatec 设备 / Test with Sympatec

** 取决于印刷机配置 / Depending on machine configuration

Metallic Inks

for UV/LED Flexo Printing



ROTOSTAR UV/LED FP-69 series offers a beautiful silver and goldbronze effect for flexo applications with improved opacity for fine lines. It is suitable for various paper and board substrates, as well as very absorbent and film substrates, shrink sleeves, etc.

ROTOSTAR UV/LED FP-69 系列金属效果油墨为柔版印刷提供漂亮的银色和铜金色效果，在细线条印刷中具备更佳的遮盖力。该系列产品适用于多种纸张与纸板底材、高吸收性和薄膜类底材以及收缩膜等多种应用场景。

金属效果油墨

适用于 UV/LED 柔版印刷



ROTOSTAR

型号 / Type	平均粒径 / Average particle size	漂浮特性 / Leafing property	颜料含量 / Pigment content	颜料形状 / Pigment shape	不含 BPA / BPA free	不含矿物油 / Mineral oil free	黏度 / Viscosity	色相 / Shade	产地 / Origin
	D50 约 / approx. [μm] *						Din 6 mm		
UV/LED FP 69-10601Z RG	6	浮型 / Leafing	30	玉米片型 / Cornflake	-	•	35s	青金 / Rich gold	珠海 / Zhuhai
UV/LED FP 69-30601Z PG	6		30	玉米片型 / Cornflake	-	•	60s	红金 / Pale gold	珠海 / Zhuhai
UV/LED FP 69-40501Z Silver	5		13	银元型 / Silver Dollar	-	•	60s	银 / Silver	珠海 / Zhuhai

* 采用 Sympatec 设备 / Test with Sympatec
** 取决于印刷机配置 / Depending on machine configuration

Metallic Inks

for UV/LED Flexo Printing



ULTRASTAR UVLED FP-8820Z Silver is a high-brilliant UV/LED flexo printing ink which is an alternative to metallization and foil stamping. The ink is based on VMP aluminium pigments and is suitable for various cardboard, paper and film substrates.

ULTRASTAR UVLED FP-8820Z Silver 是一款高金属光泽的 UV/LED 柔版印刷银墨, 可作为镀铝纸和烫金工艺的替代方案。该油墨采用 VMP 真空镀铝颜料配制而成, 适用于多种纸板、纸张及薄膜类底材。

金属效果油墨

适用于 UV/LED 柔版印刷



ULTRASTAR

型号 / Type

ULTRASTAR	平均粒径/ Average particle size	漂浮特性 / Leafing property	颜料含量 / Pigment content	颜料形状 / Pigment shape	不含 BPA / BPA free	不含矿物油 / Mineral oil free	黏度 / Viscosity	产地/ Origin
型号/Type	D50 约/approx. [μm] *						Din 6 mm	
UV/LED FP-8820 Z Silver	10	浮型 / Leafing	3.5	真空镀铝颜料 / VMP	●	●	30s	珠海 / Zhuhai

* 采用 Sympatec 设备 / Test with Sympatec

** 取决于印刷机配置 / Depending on machine configuration



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。

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

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

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

所有水性铝粉浆的附加检验：

- 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 to determining the quality criteria specified in the data sheets, the quality control applied in connection with the metal pigments comprises comprehensive testing of optical aspects.

As a rule, the following tests are carried out:

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

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

As well as this, for all pastes

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

In addition, for aluminum 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)
- color 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 (D50) 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 μm = w/Mesh aperture in μm = w

德国/ Germany	美国/ USA			英国/ Great Britain		法国/ France	荷兰/ Nether- lands	
DIN 4188	ASTM E 11	ASTM E 11	Tyler mesh no	BS 410		AFNOR X11-501	NENORM	ISO R-565
w	w		inch	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

本技术手册中介绍的数据和资料代表了本公司目前的知识和经验。

它只作为提供给用户的一般性信息，并不能免除用户使用所述产品时对其适用性进行检查的义务。

我们保留因技术更新或生产工艺发展而对产品规格或参数进行修改的权利。

本公司的技术服务部乐意为客户提供更多的建议以帮助客户解决生产和应用上的具体问题。但这并不能免除用户使用上述资料或建议时对其正确性进行检查的义务。

对于本手册所提供的数据以及本公司在应用技术方面所给予的建议，我们不对其正确性和完整性承担任何责任或义务。

The data and other information contained in this “Technical Information” brochure represent the present state of our knowledge and experience.

They are intended solely as a general information for our customers and do not exonerate potential users from their obligation to test any products described regarding their suitability for the intended application.

We reserve the right to alter any denominations as a result of technical progress or further developments in the manufacturing process.

Our “Technical Service” is available on request for further advice and for assistance in solving any problems which may arise during manufacture and application. This does not release the user from his responsibility to evaluate our data and suggestions in respect to their suitability for the intended use.

We cannot assume any liability for the correctness or completeness of the data given in this “Technical Information” brochure nor for any technical advice given.