



EDELSTEIN

Chromatic Synthetic Pearlescent Pigments /
高彩度合成珠光颜料

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High-Chroma Pearlescent Pigments

千百年来，人类一直为各种宝石着迷：古埃及法老使用色泽浓烈而闪亮的红宝石来为自己制作饰品，罗马贵族则选择蓝宝石作为送给妻子最珍贵的礼物。如今，工程师们越加重视并利用钻石的恒久性。

我们最新的珠光颜料系列集宝石的所有独特性于一身。优质合成硅酸盐结合爱卡创新的专利颜料包覆技术，可增添比自然材料更多的优秀品质：

- „一见钟情“的效果
- 独一无二的高彩度和色强度
- 强烈的闪烁度和光亮度
- 爱卡专利的间隔层技术
- 优秀的化学耐性
- 优异的耐剪切性能
- 方便在各类常见应用中使用

EDELSTEIN 采用爱卡专利的新型间隔层技术，并创造出非凡的外观效果和强烈的色泽。

更多关于间隔层技术：



Mankind has always been fascinated by jewels: Egyptian Pharaohs decorated themselves with the intense color of shining rubies. Roman noblemen chose the sapphire as the most precious gift to make their wives. Today, engineers value the extreme durability of diamonds.

Our latest series of pearlescent pigments combines all the characteristics jewels have been valued for throughout centuries. ECKART's innovative, patented coating technology and the usage of premium synthetic silicate add manifold benefits to the qualities given by nature:

- *Emotions at first sight*
- *Unique chromaticity and color intensity*
- *Powerful sparkle and gloss*
- *Patented ECKART Spacer technology*
- *High chemical resistance*
- *Excellent shear stability*
- *Easy incorporation in all common applications*

With EDELSTEIN, ECKART introduced its new, patented "Spacer" coating technology. The optical appearance as well as the powerful shade are among others due to this technology. Learn more about the Spacer technology:



EDELSTEIN CFX – 具有出色的耐候性和耐湿性

在对耐受性和稳定性提出最高要求的应用当中，我们推荐使用 EDELSTEIN CFX。该系列颜料在所有通用应用体系中都具有额外的功能优势，如优异的耐候性和耐湿性、出色的层间附着力以及绝佳的外观效果。

抗颜色随角变浅的效果颜料

即使在全球范围内，EDELSTEIN Sapphire Blue 宝石蓝的抗颜色随角变浅的效果都是独一无二的。与随着观察角度变化而产生颜色逐渐变浅的传统效果颜料不同，EDELSTEIN Sapphire Blue 宝石蓝从不同的，哪怕是很平的角度观察，都可以保持深蓝的色泽。

EDELSTEIN CFX – for outstanding weather and humidity resistance

In applications with highest requirements in terms of resistance and stability, we recommend EDELSTEIN CFX. These pigments come along with additional functional advantages, such as excellent weather and humidity resistance, outstanding intercoat adhesion as well as ideal optical performance – in all common application systems.

Effect pigments with anti-fading effect

The anti-fading effect is the characteristic that makes EDELSTEIN Sapphire Blue so unique worldwide. Unlike conventional effect pigments, which fade into lighter color spaces when viewed from different angles, EDELSTEIN Sapphire Blue retains the dark blue color tone even at very flat viewing angles.

技术信息 Technical Information

EDELSTEIN	产品编号 / Material Number	珠光色泽效果 / Pearlescent Luster Effect	粒径分布 / Particle Size Distribution	产品包装 / Packaging Sizes	样品包装 / Sample Size
	Ruby Red 宝石红	红色 / Red	10 – 40µm	25kg, 5kg, 1kg	100g
	Topaz Orange 黄玉橙	橙色 / Orange	10 – 40µm		
	Sunstone Champagne 日光石香槟色	香槟色 / Champagne	10 – 40µm		
	Sapphire Blue 宝石蓝	蓝色 / Blue	10 – 40µm		

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	CFX Ruby Red 宝石红	红色 / Red	10 – 40µm	25kg, 5kg, 1kg	100g
	CFX Topaz Orange 黄玉橙	橙色 / Orange	10 – 40µm		
	CFX Sunstone Champagne 日光石香槟色	香槟色 / Champagne	10 – 40µm		
	CFX Sapphire Blue 宝石蓝	蓝色 / Blue	10 – 40µm		

物理组分 / <i>Physical Composition</i>	EDELSTEIN Ruby Red 宝石红	EDELSTEIN Topaz Orange 黄玉橙	EDELSTEIN Sunstone Champagne 日光石香槟	EDELSTEIN Sapphire Blue 宝石蓝	单位 / <i>Unit</i>	测试方法 / <i>Method</i>
合成硅酸盐 / <i>Synthetic Silicate</i>	36 – 48	54 – 66	64 – 79	52 – 67	%	爱卡内部测试方法 / <i>ECKART internal testing</i>
氧化铁 / <i>Iron Oxide</i>	51 – 61	29 – 39	1 – 5	2 – 6		
氧化锡 / <i>Tin Oxide</i>	1 – 3	5 – 7	0 – 1	0 – 1		
二氧化钛 / <i>Titanium dioxide</i>	–	–	20 – 30	31 – 41		
物理属性 / <i>Physical Properties</i>						
密度 / <i>Density</i>	3.9	3.5	3.2	3.3	g/cm³	DIN 66137
容积密度 / <i>Bulk Density</i>	0.4	0.3	0.2	0.4	g/cm³	EN ISO 60
残留水分 / <i>Residual Moisture</i>	< 0.6	< 0.6	< 0.6	< 0.6	%	DIN 55923
导电性 / <i>Electrical Conductivity</i>	< 350	< 350	< 350	< 350	µS	EN ISO 787-9
粒径分布 / <i>Particle Size Distribution</i>	10 – 40	10 – 40	10 – 40	10 – 40	µm	ISO 13320-1



测试结果 / <i>Test Results</i>	测试条件 / <i>Test Conditions</i>	测试体系 / <i>Test System</i>	测试结果 / <i>Results</i>
化学稳定性 / <i>Chemical Stability</i>	1周 / <i>1 week</i> 氢氧化钠 NaOH, 5 % / 20 °C	单涂层, 10 % 颜料添加量 <i>1-coat, 10 % Pigmentation load</i>	无颜色变化 / <i>No color change</i>
耐剪切性能 / <i>Shear Stability</i>	内部测试 / <i>Internal test</i>	高固含体系, 10 % 颜料添加量 / <i>High Solid system, 10 % Pigmentation load</i>	无颜料碎裂 / <i>No pigment delamination</i>
耐湿性 仅 CFX 版本 / <i>Humidity resistance Only CFX Version</i>	10天; 100% 湿度 / 40 °C <i>10d; 100% humidity/ 40 °C</i>	OEM 双涂层体系, 6% 颜料添加量 / <i>OEM 2-coat system; 6% Pigmentation load</i>	24小时后的光泽 / <i>Gloss after 24h 99%</i> 24小时后的鲜映度 / <i>DOI after 24h 100%</i> 24小时后的划格附着力分级 / <i>Cross cut 24h 0</i>

根据要求可提供氙灯加速老化测试 (SAE J2527 标准) 和佛罗里达测试结果 / *Xenon (SAE J2527) and Florida tests results on request*

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谨致友好问候
With compliments

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