



Effect Pigments and Pellets for Powder Coatings

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0/June2024.9 PC PDF
099159XX0

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Effect Pigments and Pellets for Powder Coatings

Type	Particle Size D50 [µm] approx.	Surface Treatment	Chemical Resistance	Mortar Test	Florida Test	Humidity Test	Min. Ignition Energy	Remark
Special non-leaving Aluminum Pigment Preparations								
PCBF (bonding-free)	50	Sol-Gel Silica and carboxylated polyester binder	++++	++++	++++	No data available*		
PCBF 5000	34	Sol-Gel Silica and carboxylated polyester binder	++++	++++	++++	30mJ<ME<100mJ	Silverdollar, recommended for film thickness > 60 µm	
Non-leaving Aluminum Pigments								
PCUplus (superior)	8	Sol-Gel Silica and acrylic	++++	+++	+++	1mJ<ME<3mJ	Silverdollar	
PCUplus 800		Sol-Gel Silica and acrylic	++++	+++	+++			
PCU (ultra-stable)		Sol-Gel Silica and acrylic	++++	+++	+++			
PCU 5000	51	Sol-Gel Silica and acrylic	++++	+++	+++			
PCU 5000	36	Sol-Gel Silica and acrylic	+++	++	++			
PCU 3500	22	Sol-Gel Silica and acrylic	+++	++	++			
PCU 2000	17	Sol-Gel Silica and acrylic	+++	++	++			
PCU 1500	13	Sol-Gel Silica and acrylic	+++	++	++			
PCs (high performance)								
PCS 5000	51	Sol-Gel Silica	++	++	++	100mJ<ME<300mJ	Silverdollar	
PCS 5000	33	Sol-Gel Silica	++	++	++	100mJ<ME<300mJ	Silverdollar	
PCS 3500	20	Sol-Gel Silica	++	+	+	10mJ<ME<30mJ	Comflake	
PCS 2000	15	Sol-Gel Silica	++	+	+	3mJ<ME<10mJ	Comflake	
PCS 1500	19	Sol-Gel Silica	++	+	+	ME<3mJ	Comflake	
PCS 1000	11	Sol-Gel Silica	++	+	+	1mJ<ME<3mJ	Comflake	
PCS 900	9	Sol-Gel Silica	++	+	+	3mJ<ME<10mJ	Silverdollar, excellent hiding	
PCS 600	6	Sol-Gel Silica	++	+	+	3mJ<ME<10mJ	Silverdollar, excellent hiding	
PCR (standard performance)								
PCR 5000	67	Silica	+	o	+++	+++	No data available*	Silverdollar
PCR 5000	48	Silica	+	o	+++	+++	100mJ<ME<300mJ	Silverdollar
PCR 211	31	Silica	+	o	+++	+++	No data available*	Silverdollar
PCR 214	26	Silica	+	o	++	++	No data available*	Silverdollar
PCR 181	19	Silica	+	o	++	++	No data available*	Silverdollar
PCR 501	17	Silica	+	o	o	o	No data available*	Comflake
PCR 801	10	Silica	+	o	o	o	No data available*	Comflake
PCR 901	8	Silica	+	o	o	o	No data available*	Comflake
PCA (standard performance)								
PCA 211	44	Acrylic	+	o	+++	+++	No data available*	Silverdollar
PCA 214	29	Acrylic	+	o	+++	+++	No data available*	Silverdollar
PCA 161	21	Acrylic	+	o	++	++	No data available*	Comflake
PCA 501	19	Acrylic	+	o	++	++	No data available*	Comflake
Leafing Aluminum Pigments								
PCA (chrome effect)	8	Stearic acid	o	o	o	o	3mJ<ME<10mJ	
PCA 212	15	Stearic acid	o	o	o	o	1mJ<ME<3mJ	
PCA 214	8	Stearic acid	o	o	o	o	1mJ<ME<3mJ	
PCA 150	6	Stearic acid	o	o	o	o	ME<1mJ	
PCA 200	4	Stearic acid	o	o	o	o	ME<1mJ	
Leaving Aluminum Pellets								
POWERSAFE (Pellet – dust free)								
POWERSAFE 5080-02	55	Sol-Gel Silica and wax	o	o	o	o	not applicable: dust-free pellets	For direct extrusion, e.g. for smooth powder coating
POWERSAFE 3580-02	35	Sol-Gel Silica and wax	o	o	o	o	not applicable: dust-free pellets	For direct extrusion, e.g. for smooth powder coating
POWERSAFE 2080-02	21	Sol-Gel Silica and wax	o	o	o	o	not applicable: dust-free pellets	For direct extrusion, e.g. for smooth powder coating
POWERSAFE 1080-02	10	Sol-Gel Silica and wax	o	o	o	o	not applicable: dust-free pellets	For direct extrusion, e.g. for smooth powder coating
POWERSAFE 1080-01	21	Sol-Gel Silica and wax	o	o	o	o	not applicable: dust-free pellets	For direct extrusion, e.g. for antiuke effects
Weather Resistant Synthetic Mica Pearls								
SYMIC PCE		Particle Size Range [µm] approx.						
SYMIC PCE A001	3 – 21	Chrome free stabilization	++++	+++	+++	+++	–	Silver
SYMIC PCE C001	9 – 44	Chrome free stabilization	++++	+++	+++	+++	–	Silver
SYMIC PCE E001	22 – 120	Chrome free stabilization	++++	+++	+++	+++	–	Silver
SYMIC PCE A333	3 – 21	Chrome free stabilization	++++	+++	+++	No data	+++	Gold
SYMIC PCE C393	8 – 47	Chrome free stabilization	++++	+++	+++	+++	–	Gold
SYMIC PCE C522	9 – 44	Chrome free stabilization	++++	+++	+++	+++	–	Copper
STAY STEEL								
LN 35	35	–	+++	+++	+++	+++	No data available*	Ni content <0,1%
LN 25	23	–	+++	+++	+++	+++	No data available*	Ni content <0,1%
Glass Pearl Pigments								
LUXAN		Particle Size Range [µm] approx.						
LUXAN C001 Silver	15 – 60	15 – 60	+++	+++	No data	+++	–	Possible for direct extrusion
LUXAN C241 Interference Red	15 – 60	15 – 60	+++	+++	No data	+++	–	Possible for direct extrusion
LUXAN C261 Interference Blue	15 – 60	15 – 60	+++	+++	No data	+++	–	Possible for direct extrusion
LUXAN C393 Combination Gold	15 – 60	15 – 60	+++	+++	No data	+++	–	Possible for direct extrusion
LUXAN D001 Silver	20 – 100	20 – 100	+++	+++	No data	+++	–	Possible for direct extrusion
LUXAN D393 Combination Gold	20 – 100	20 – 100	+++	+++	No data	+++	–	Possible for direct extrusion
LUXAN D502 Bronze	20 – 100	20 – 100	+++	+++	No data	+++	–	Possible for direct extrusion
LUXAN D512 Champagne	20 – 100	20 – 100	+++	+++	No data	+++	–	Possible for direct extrusion
LUXAN D522 Copper	20 – 100	20 – 100	+++	+++	No data	+++	–	Possible for direct extrusion
LUXAN D542 Fire Red	20 – 100	20 – 100	+++	+++	No data	+++	–	Possible for direct extrusion
LUXAN E001 Silver	35 – 150	35 – 150	+++	+++	No data	+++	–	Possible for direct extrusion
LUXAN E221 Interference Gold	35 – 150	35 – 150	+++	+++	No data	+++	–	Possible for direct extrusion
LUXAN E241 Interference Red	35 – 150	35 – 150	+++	+++	No data	+++	–	Possible for direct extrusion
LUXAN E261 Interference Blue	35 – 150	35 – 150	+++	+++	No data	+++	–	Possible for direct extrusion
LUXAN F001 Silver	80 – 450	80 – 450	+++	+++	No data	+++	–	Possible for direct extrusion, not recommended for Dry-Blend or Bonding

Further pigments for the use in powder coatings (but not tested in powder coatings QC)

Type	Particle Size D50 [µm] approx.	Surface Treatment	Chemical Resistance	Mortar Test	Florida Test	Humidity Test	Min. Ignition Energy	Remark
Non-leaving Gold Bronze Pigments								
STANDARD® Resist (standard performance)								
Resist LT	39	Silica	o	o	o	o	No data available*	Copper, Pale Gold, Rich Pale Gold, Rich Gold
Resist CT	27	Silica	o	o	o	o	No data available*	Copper, Pale Gold, Rich Pale Gold, Rich Gold
Resist AT	14	Silica	o	o	o	o	No data available*	Copper, Pale Gold, Rich Pale Gold, Rich Gold
Resist Rotoflex Brilliant	8	Silica	o	o	o	o	No data available*	Copper, Pale Gold, Rich Pale Gold, Rich Gold
Stable non-leaving Stainless Steel Flakes								
STAY STEEL								
LN 35	35	–	+++	+++	+++	+++	No data available*	Ni content <0,1%
LN 25	23	–	+++	+++	+++	+++	No data available*	Ni content <0,1%
Glass Pearl Pigments								
LUXAN		Particle Size Range [µm] approx.						
LUXAN C001 Silver	15 – 60	15 – 60	+++	+++	No data	+++	–	Possible for direct extrusion
LUXAN C241 Interference Red	15 – 60	15 – 60	+++	+++	No data	+++	–	Possible for direct extrusion
LUXAN C261 Interference Blue	15 – 60	15 – 60	+++	+++	No data			