

# INDUSTRIAL COATINGS

Product Data & Selection Guide



**SILBERLINE**<sup>®</sup>  
The Architects of Light<sup>®</sup>

# Product Lines

Silberline provides the following families of aluminum pigment for use in coatings to produce metallic silver and colored metallic shades for applications as diverse as automotive OEM, refinish, mobile phones, appliances, packaging, cosmetics, televisions, wheel coatings, bicycle coatings, etc... With the widest range of particle size, geometry and delivery forms, the possible applications for applying these unique metallic pigments are as limitless as the imagination.

Pigment Series ● Suitable	Automotive Solventborne OEM	Automotive Waterborne OEM	Automotive Solventborne Refinish	Automotive Waterborne Refinish	Autoparts and Accessories	Wheels	Automotive Interior	Solventborne Industrial Coatings	Waterborne Industrial Coatings	Can Coatings	Powder Coatings
	A Series								●		●
AQUA PASTE®		●		●	●	●	●		●		
AQUASIL®									●		
AQUAVEX®									●		
AQUAVEX AD®									●		
Dusted Flake											●
ETERNABRITE®								●			
ETERNABRITE Premier								●			
SILBERCOTE® AQ		●		●	●	●	●		●		
SILBERCOTE AQ Liquid Metal		●		●	●	●	●		●		
SILBERCOTE AQ X-treme		●		●	●	●	●		●		
SILBERCOTE AQ Star		●		●	●	●	●		●		
SILBERCOTE PC-X											●
SILBERCOTE PC-XS											●
SILBERCOTE Y					●		●	●			
SILBERCOTE Z					●		●	●			
SILVER STAR®	●		●		●	●	●	●			
SILVET®											●
SPARKLE SILVET®											●
SPARKLE SILVER®	●		●		●	●	●	●			
SPARKLE SILVER Premier	●		●		●	●	●	●			
SPARKLE SILVER ULTRA®	●		●		●	●	●	●			
SPARKLE SILVER Elite	●		●		●	●	●	●			
SPARKLE SILVER X-treme	●		●		●	●	●	●			
SPARKLE SILVER ULTRA Liquid Metal	●		●		●	●	●	●			
SPARKLE SILVER Elite Liquid Metal	●		●		●	●	●	●			
Standard								●		●	
STARBRITE®					●	●	●	●			
STARBRITE Reveal					●	●	●	●			
STARBRITE Reveal AQ					●	●	●		●		
TUFFLAKE®	●										
TUFFLAKE Premier	●										



**For over 70 years**, Silberline has been an industry leader in providing metallic pigments to the coatings market. The industrial coatings portfolio is comprised of a broad range of high performance metallic pigments designed for the unique needs of the coatings industry.

We offer our product in powder, granular, flake and paste forms, each designed to maximize ease of use, increase stability, enhance brightness, safety and compatibility with virtually any industrial coating application.

## Aluminum Pigments for Waterborne Coatings

Silberline has developed several unique passivation technologies, each with a level of sophistication and performance that is tailored to meet legislative requirements for waterborne coatings. Various chemistries have been developed to optimize the interaction with the aluminum flake surface, imparting outstanding performance and stability while maintaining optimum aesthetics. Silberline can apply its passivation technology to any traditional aluminum pigment we manufacture, resulting in a wide range of possible metallic effects. In addition, each batch of passivated aluminum pigment is tested and approved for gassing stability prior to shipment.

### Inhibited Aluminum Paste for Waterborne Coatings

Family	Percentage Non-volatile by Weight	D (50%) Microns	Specific Gravity	Solvent Carrier	Surface Treatment
SILBERCOTE AQ E2169-F3X	49	13	1.29	GE	Silica
SILBERCOTE AQ E5000-F3X	50	14	1.30	GE	Silica
SILBERCOTE AQ E2140-F3X	49	15	1.30	GE	Silica
SILBERCOTE AQ E554-F2X	50	16	1.32	GE	Silica
SILBERCOTE AQ E2154-F2X	50	18	1.29	GE	Silica
SILBERCOTE AQ E666-F2X	50	21	1.32	GE	Silica
SILBERCOTE AQ E354-F3X	58	28	1.32	GE	Silica
SILBERCOTE AQ 3130-F1X	58	36	1.46	GE	Silica
SILBERCOTE AQ Liquid Metal 011	60	11	1.50	GE	Silica
SILBERCOTE AQ Liquid Metal 020	60	20	1.50	GE	Silica
SILBERCOTE AQ X-treme 020	60	20	1.50	GE	Silica
SILBERCOTE AQ Star 010	60	10	1.45	GE	Silica
SILBERCOTE AQ Star 012	60	12	1.45	GE	Silica
SILBERCOTE AQ Star 015	60	15	1.45	GE	Silica
SILBERCOTE AQ Star 018	60	18	1.45	GE	Silica
SILBERCOTE AQ Star 022	60	22	1.45	GE	Silica

Abbreviations: EAC (Ethyl Acetate); GE (Glycol Ether); HA (High Aromatic); IA (Isopropyl Alcohol); MS (Mineral Spirits); NE (Nitroethane); PHS (Phosphate); SF (Surfactant)

**SILBERCOTE AQ** – Passivated aluminum pigments use advanced technology to encapsulate each individual flake of aluminum with a uniform, coherent and protective layer of silica. The result is a pigment with excellent gassing resistance and stability in a wide range of metallic effects. Easily dispersed into water/co-solvent while providing excellent adhesion. The treatment can be applied to both corn flake and silver dollar aluminum pigments and has been found to also enhance the circulation stability of the pigment while maintaining the flake integrity, shape and coloristic properties.

## Passivated Aluminum Granules for Waterborne Coatings

Family	Percentage Non-volatile by Weight	D (50%) Microns	Type	Carrier	Aluminum Percentage	Passivation
AQUAVEX L010	98.5	10	Leafing	SF	80	Advanced PHS
AQUAVEX NL 010	98.5	10	Non-leafing	SF	80	Advanced PHS
AQUAVEX NL Premier 011	98.5	11	Non-leafing	SF	80	Advanced PHS
AQUAVEX NL 013	98.5	13	Non-leafing	SF	80	Advanced PHS
AQUAVEX NL 015	98.5	15	Non-leafing	SF	80	Advanced PHS
AQUAVEX NL Premier 016	98.5	16	Non-leafing	SF	80	Advanced PHS
AQUAVEX L Premier 021	98.5	21	Leafing	SF	80	Advanced PHS
AQUAVEX NL 028	98.5	28	Non-leafing	SF	80	Advanced PHS
AQUAVEX AD 010	98.5	10	Non-leafing	SF	75	PHS
AQUAVEX AD Premier 011	98.5	11	Non-leafing	SF	75	PHS
AQUAVEX AD 013	98.5	13	Non-leafing	SF	75	PHS
AQUAVEX AD 015	98.5	15	Non-leafing	SF	75	PHS

Abbreviations: EAC (Ethyl Acetate); GE (Glycol Ether); HA (High Aromatic); IA (Isopropyl Alcohol); MS (Mineral Spirits); NE (Nitroethane); PHS (Phosphate); SF (Surfactant)

**AQUAVEX** – Passivation utilizes advanced phosphate technology to stabilize the aluminum pigment from reacting with water in waterborne coatings systems. The product is supplied in a granular version containing a low-foaming, non-ionic surfactant for easy dispersion directly into water. AQUAVEX contains 80% aluminum pigment, is low dusting and is virtually solvent-free. AQUAVEX AD has a pigment content of 75% and improves adhesion to substrate and clear coat.

## Passivated Aluminum Paste for Waterborne Coatings

Family	Percentage Non-volatile by Weight	D (50%) Microns	Maximum Percentage Retained 325 Mesh	Specific Gravity	Solvent Carrier	Passivation
AQUA PASTE 5500-C43	57	14	0.10	1.39	MS/HA/GE	PHS
AQUA PASTE 554-C33	63	16	0.10	1.52	MS/HA/GE	PHS
AQUA PASTE 354-C23	64	24	0.10	1.55	MS/HA/GE	PHS
AQUA PASTE 3130-C23	64	36	0.10	1.55	MS/HA/GE	PHS
<b>WATERBORNE LEAFING</b>						
AQUASIL BP 205	68	15	1.00	1.56	MS/HA/NE/GE	PHS/SF
<b>WATERBORNE NON-LEAFING</b>						
AQUASIL BP SN	63	14	1.00	1.49	MS/HA/NE/GE	PHS/SF
AQUASIL BP 5500	62	14	0.10	1.47	MS/HA/NE/GE	PHS/SF
AQUASIL BP SO	63	17	1.00	1.49	MS/HA/NE/GE	PHS/SF
AQUASIL BP 3500	63	27	2.00	1.49	MS/HA/NE/GE	PHS/SF
AQUASIL BP 3641	68	31	1.00	1.58	MS/HA/NE/GE	PHS/SF
AQUASIL BP 3622	78	35	1.00	1.82	MS/HA/NE/GE	PHS/SF
AQUASIL BP 2750	68	55	1.00*	1.58	MS/HA/NE/GE	PHS/SF

Abbreviations: EAC (Ethyl Acetate); GE (Glycol Ether); HA (High Aromatic); IA (Isopropyl Alcohol); MS (Mineral Spirits); NE (Nitroethane); PHS (Phosphate); SF (Surfactant)

\*Maximum percentage retained 200 mesh

**AQUA PASTE** – Easy dispersion in co-solvent and provides excellent gassing resistance and stability in waterborne systems. This line includes a combination of solvents useful for formulating in waterborne applications. Silberline AQUA PASTE inorganic passivation technology is applicable to traditional corn flake and silver dollar aluminum flake pigments.

**AQUASIL** – Specifically created for aqueous architectural and industrial maintenance coatings. This line of products offers a cost-effective alternative for achieving stability and system compatibility with a broad range of coating vehicles, while offering aesthetics to meet virtually any formulating requirement.

# Aluminum Pigments for Solventborne Coatings

Leafing and non-leafing aluminum pigments are commonly used in a variety of coatings including maintenance coatings, powder coatings, automotive coatings and traditional liquid coatings. Aluminum pigments bring value to these coatings by increasing their aesthetic value and by adding functional attributes to the finished coating film.

## Leafing Aluminum Paste for Solventborne Coatings

Family	Percentage Non-volatile by Weight	Minimum Percentage Leafing	D (50%) Microns	Maximum Percentage Retained 325 Mesh	Specific Gravity	Solvent Carrier	ASTM D962-86
<b>STANDARD SERIES</b>							
Extra Fine P	73	55	9	0.10	1.63	MS	Type II; Class A
A-6240	73	55	11	1.00	1.63	MS	Type II; Class B
Extra Fine A	65	55	12	0.10	1.47	MS	Type II; Class A
Stamford P	73	55	13	1.00	1.63	MS	Type II; Class B
Stamford A1	65	55	15	1.00	1.47	MS	Type II; Class B
A-6205	65	55	17	1.00	1.47	MS	Type II; Class B
Silvar A	65	55	20	15.00	1.47	MS	Type II; Class C
ETERNABRITE 651-1	72	80	7	0.10	1.57	MS	Type II; Class A
ETERNABRITE Premier 351	80	60	13	0.10	1.83	MS	Type II; Class A
ETERNABRITE 301-1	68	90	14	1.00	1.49	MS	Type II; Class B
ETERNABRITE Premier 255	74	70	15	0.10	1.65	MS	Type II; Class A
ETERNABRITE Premier 251	74	70	17	0.10	1.65	MS	Type II; Class A

Abbreviations: EAC (Ethyl Acetate); GE (Glycol Ether); HA (High Aromatic); IA (Isopropyl Alcohol); MS (Mineral Spirits); NE (Nitroethane); PHS (Phosphate); SF (Surfactant)

**Standard Series** – Standard leafing grades are based on corn flake geometry. They are manufactured to offer economical solutions to the coatings formulator seeking to develop coatings with typical metallic leafing effects. These products are available in medium to fine particle size and are characterized by a broad particle size distribution range for good coverage.

**ETERNABRITE** – These leafing pastes are based on corn flake geometry manufactured to provide enhanced leafing characteristics.

**ETERNABRITE Premier** – Products based on silver dollar geometry offer stronger, brighter, and more specular leafing reflectance compared to the standard leafing grades.





## Non-leafing Aluminum Paste for Solventborne Coatings

Family	Percentage Non-volatile by Weight	D (50%) Microns	Maximum Percentage Retained 325 Mesh	Specific Gravity	Solvent Carrier	Passivation
<b>STANDARD SERIES</b>						
Super Fine N	65	6	0.10	1.47	MS/HA	N/A
Extra Fine N	65	7	0.10	1.47	MS/HA	N/A
Extra Fine O	65	10	0.10	1.47	MS/HA	N/A
L-270	65	12	0.10	1.47	MS/HA	N/A
Lansford 243	65	14	1.00	1.47	MS/HA	N/A
Stamford O	65	17	1.00	1.47	MS/HA	N/A
Stamford Q	65	23	2.00	1.47	MS/HA	N/A
<b>A SERIES</b>						
A-1590FG	65	6	0.10	1.47	MS/HA	N/A
A-2291FG	65	8	0.10	1.47	MS/HA	N/A
A-1592FG	65	9	0.10	1.47	MS/HA	N/A
A-226	65	13	0.10	1.47	MS/HA	N/A
A-222FG	65	14	1.00	1.47	MS/HA	N/A

## Corn Flake Aluminum Paste for Solventborne Coatings

Family	Percentage Non-volatile by Weight	D (50%) Microns	Maximum Percentage Retained 325 Mesh	Specific Gravity	Solvent Carrier
SPARKLE SILVER 7000-AR	64	7	0.10	1.46	MS/HA
SPARKLE SILVER 7500	64	11	0.10	1.46	MS/HA
SPARKLE SILVER 6246-AR	62	13	0.01	1.45	MS/HA
SPARKLE SILVER 5500	64	14	0.10	1.46	MS/HA
SPARKLE SILVER 5000-AR	64	14	0.10	1.46	MS/HA
SPARKLE SILVER 3333-AR	60	15	0.10	1.38	MS/HA
SPARKLE SILVER 5745	64	19	0.01	1.46	MS/HA
SPARKLE SILVER 5271-AR	64	19	0.01	1.46	MS/HA
SPARKLE SILVER 5245-AR	62	21	0.01	1.45	MS/HA
SPARKLE SILVER 3500	65	27	2.00	1.47	MS/HA
SPARKLE SILVER 3201-ST	65	28	1.00	1.47	MS/HA
SPARKLE SILVER 3000-AR	65	28	2.00	1.47	MS/HA
SPARKLE SILVER 3199-AR	60	29	2.00	1.38	MS/HA
SPARKLE SILVER 3166-AR	60	30	5.00	1.38	MS/HA
SPARKLE SILVER 3141-ST	66	30	1.00	1.49	MS/HA
SPARKLE SILVER 3641	70	31	1.00	1.58	MS/HA
SPARKLE SILVER 3622	78	35	1.00	1.79	MS/HA
SPARKLE SILVER 3130-AR	74	36	1.00	1.71	MS/HA
SPARKLE SILVER 3122-AR	78	36	1.00	1.79	MS/HA
SPARKLE SILVER 2750	70	55	1.00*	1.58	MS/HA

Abbreviations: EAC (Ethyl Acetate); GE (Glycol Ether); HA (High Aromatic); IA (Isopropyl Alcohol); MS (Mineral Spirits); NE (Nitroethane); PHS (Phosphate); SF (Surfactant)

**Standard Series** – A non-leafing series based on corn flake geometry. It is ideally suited for use in industrial coatings where economics and typical metallic appearance is important. The metallic effects produced by this grade, range from a muted silver to a standard silver appearance. The standard non-leafing pastes are available with particle sizes ranging from medium to extra fine. They are characterized by a relatively broad particle size distribution range for good coverage.

**A Series** – This series consists of several grades that are non-acid resistant and can be used for coatings in food packaging. They are classified as Type IV non-leafing aluminum pigments.

**SPARKLE SILVER** – This series was developed with technology to polish the aluminum flake surface which combined with a controlled particle size distribution, can be utilized in many solventborne coatings applications. The wide range of particle sizes available allows formulation of high opacity, smooth patina metallic silver effects and tints through to highly sparkling effects.

## Silver Dollar Aluminum Paste for Solventborne Coatings

Family	Percentage Non-volatile by Weight	D (50%) Microns	Maximum Percentage Retained 325 Mesh	Specific Gravity	Solvent Carrier
SILVER STAR 010	70	10	0.01	1.58	MS/HA
SILVER STAR 012	70	12	0.01	1.58	MS/HA
SILVER STAR 015	70	15	0.10	1.58	MS/HA
SILVER STAR 018	70	18	0.10	1.58	MS/HA
SILVER STAR 022	75	22	0.10	1.72	MS/HA
SPARKLE SILVER Premier 695	75	12	0.01	1.73	MS/HA
SPARKLE SILVER Premier 572	70	14	0.01	1.58	MS/HA
SPARKLE SILVER Premier 516-AR	64	14	0.01	1.46	MS/HA
SPARKLE SILVER Premier 552	70	15	0.01	1.58	MS/HA
SPARKLE SILVER Premier 504-AR	70	15	0.01	1.58	MS/HA
SPARKLE SILVER Premier 554	70	16	0.01	1.58	MS/HA
SPARKLE SILVER Premier 404-AR	70	18	0.01	1.58	MS/HA
SPARKLE SILVER Premier 303-AR	70	20	0.01	1.58	MS/HA
SPARKLE SILVER Premier 454	70	22	0.01	1.58	MS/HA
SPARKLE SILVER Premier 313-AR	70	22	0.01	1.58	MS/HA
SPARKLE SILVER Premier 353	70	23	0.01	1.58	MS/HA
SPARKLE SILVER Premier 354	70	24	0.01	1.58	MS/HA
SPARKLE SILVER Premier 132-AR	78	24	0.10	1.80	MS/HA
SPARKLE SILVER Premier 055	80	34	0.10	1.86	MS/HA
SPARKLE SILVER ULTRA 7908	70	7	0.01	1.58	MS/HA
SPARKLE SILVER ULTRA 7807	73	9	0.01	1.66	MS/HA
SPARKLE SILVER ULTRA 6704	77	11	0.01	1.76	MS/HA
SPARKLE SILVER ULTRA 6756	72	12	0.01	1.65	MS/HA
SPARKLE SILVER ULTRA 6605	80	15	0.01	1.86	MS/HA
SPARKLE SILVER ULTRA 6555	75	17	0.01	1.72	MS/HA
SPARKLE SILVER Elite 010	72	10	0.01	1.51	MS/HA
SPARKLE SILVER Elite 012	72	12	0.01	1.51	MS/HA
SPARKLE SILVER Elite 014	72	14	0.01	1.51	MS/HA
SPARKLE SILVER X-treme 15	72	15	0.01	1.73	MS/HA
SPARKLE SILVER X-treme 17	72	17	0.01	1.73	MS/HA
SPARKLE SILVER X-treme 19	72	19	0.10	1.73	MS/HA
SPARKLE SILVER X-treme 20	72	20	0.10	1.73	MS/HA

Abbreviations: EAC (Ethyl Acetate); GE (Glycol Ether); HA (High Aromatic); IA (Isopropyl Alcohol); MS (Mineral Spirits); NE (Nitroethane); PHS (Phosphate); SF (Surfactant)

**SILVER STAR** – Designed to meet the high demands of our automotive coatings customers. The pigment's advanced silver dollar technology yields exceptional brilliance, expansive metal travel and very smooth patina. SILVER STAR offers excellent performance in OEM finishes in automotive interior coatings, wheel, parts and accessory coatings.

**SPARKLE SILVER Premier** – Engineered to have more uniform surfaces, rounder edges and tightly controlled particle size distributions. This unique silver dollar technology gives designers the possibility to create whiter, brighter and cleaner silver and polychromatic colors.

**SPARKLE SILVER ULTRA** – Very bright, lenticular pigments, offering an exceptionally smooth patina and narrow particle size distribution. This allows the formulator to create very smooth, brilliant mass tones, or clean, vibrant colors. This grade is designed for the stylist to raise the bar in metallic effects and creativity.

**SPARKLE SILVER Elite** – Finer, brighter metallic effects offering excellent face brightness with a deep flop and high gloss. Used to create brilliant, high gloss masstone silver colors or clean and vibrant tints

**SPARKLE SILVER X-treme** – Allows for clean tint bases that boost chromatic effect. These pigments employ Silberline's advanced silver dollar technology that yields exceptional color and brilliance. It generates richness in metallic reflection across a wide range of viewing angles and offers excellent performance in automotive OEM finishes. It is ideal for use in refinish, wheel coatings, parts and accessories.



### TUFFLAKE Degradation Resistant Aluminum Paste for Solventborne Coatings

Family	Percentage Non-volatile by Weight	D (50%) Microns	Maximum Percentage Retained 325 Mesh	Specific Gravity	Solvent Carrier
TUFFLAKE 5950	70	11	0.01	1.60	MS/HA
TUFFLAKE 4700	70	13	0.01	1.60	MS/HA
TUFFLAKE 4615	70	15	0.01	1.60	MS/HA
TUFFLAKE 3650	78	15	0.01	1.80	MS/HA
TUFFLAKE 3700	76	15	0.01	1.70	MS/HA
TUFFLAKE 3645	78	16	0.01	1.80	MS/HA
TUFFLAKE 3120-AR	78	17	0.01	1.80	MS/HA
TUFFLAKE 3620	78	18	0.01	1.80	MS/HA
TUFFLAKE 2222-AR	82	35	0.10	1.90	MS/HA
TUFFLAKE Premier 010	70	10	0.01	1.58	MS/HA
TUFFLAKE Premier 125	72	12	0.01	1.73	MS/HA
TUFFLAKE Premier 018	78	18	0.01	1.79	MS/HA
TUFFLAKE Premier 024	78	24	0.10	1.79	MS/HA

Abbreviations: EAC (Ethyl Acetate); GE (Glycol Ether); HA (High Aromatic); IA (Isopropyl Alcohol); MS (Mineral Spirits); NE (Nitroethane); PHS (Phosphate); SF (Surfactant)

**TUFFLAKE** – Degradation resistant pigments developed to be compatible with newer paint application systems. Very high shear can be experienced during application which can lead to a color shift due to breaking and deforming of individual aluminum flakes. Our TUFFLAKE line of circulation resistant pigments, is specifically engineered to withstand these mechanical forces and maintain their targeted appearance.





## Liquid Metal Aluminum Paste for Solventborne Coatings

Family	Percentage Non-volatile by Weight	D (50%) Microns	Maximum Percentage Retained 325 Mesh	Specific Gravity	Solvent Carrier
SPARKLE SILVER ULTRA Liquid Metal 011	65	11	0.01	1.50	MS/HA
SPARKLE SILVER ULTRA Liquid Metal 018	60	18	0.01	1.40	MS/HA
SPARKLE SILVER ULTRA Liquid Metal 020	65	20	0.01	1.50	MS/HA
SPARKLE SILVER Elite Liquid Metal 011	70	11	0.01	1.61	MS/HA
SPARKLE SILVER Elite Liquid Metal 015	65	15	0.01	1.51	MS/HA

Abbreviations: EAC (Ethyl Acetate); GE (Glycol Ether); HA (High Aromatic); IA (Isopropyl Alcohol); MS (Mineral Spirits); NE (Nitroethane); PHS (Phosphate); SF (Surfactant)

**SPARKLE SILVER ULTRA Liquid Metal** – Producing a brilliant sheen with no visible particles. These pigments provide the appearance of pure metals such as brushed aluminum, polished steel or anodized aluminum. Delivering a powerful one-two punch—the look and appearance of vacuum metallized flake with the application benefits of conventional aluminum pastes. Also offering a bright, highly-polished reflective surface with little or no grain, narrow particle size distribution and smooth patina. They are ideal for automotive interiors, wheel coatings, trim and accessories, and specialty applications.

**SPARKLE SILVER Elite Liquid Metal** – The elite series of liquid metal flakes is brighter, providing significantly more hiding than the SPARKLE SILVER ULTRA LM series. These fine silver dollar milled aluminum flakes with a highly polished surface can be formulated for use within a multitude of coatings ranging from automotive OEM, refinish, interior, wheel coatings, 3C and general industrial.

## SILBERCOTE Resin Treated Aluminum Paste

Family	Percentage Non-volatile by Weight	D (50%) Microns	Specific Gravity	Solvent Carrier	Surface Treatment
<b>Y Series</b>					
SILBERCOTE 516-20Y	55	14	1.21	MS/HA	Acrylic Polymer
SILBERCOTE 5245-20Y	50	21	1.16	MS/HA	Acrylic Polymer
<b>Z Series</b>					
SILBERCOTE 7908-10Z	55	8	1.25	MS/HA	Acrylic Polymer
SILBERCOTE 303-20Z	55	20	1.19	MS/HA	Acrylic Polymer
SILBERCOTE 132-10Z	60	24	1.33	MS/HA	Acrylic Polymer
SILBERCOTE 3641-10Z	61	31	1.33	MS/HA	Acrylic Polymer

Abbreviations: EAC (Ethyl Acetate); GE (Glycol Ether); HA (High Aromatic); IA (Isopropyl Alcohol); MS (Mineral Spirits); NE (Nitroethane); PHS (Phosphate); SF (Surfactant)

**SILBERCOTE Y and Z** – Resin treated pigments have been created to provide non-leaching aluminum pigments with improved resistance to acids and alkalis, making them suited for automotive interior coatings and parts. The coating on the very bright pigments makes them less conductive. The surface treatment also improves the spray characteristics.



# Aluminum Pigments for Powder Coatings

The following product families are designed to provide value to the powder coatings manufacturer based on performance in the finished powder coating. The products provide compatibility across a full range of powder coating types and support the demands of virtually any application.

Family	Percentage Non-volatile by Weight	D (50%) Microns	Specific Gravity	Surface Treatment	Application
SILBERCOTE PC-8153X	99	14	2.60	Silica	Dry blend/Bonding
SILBERCOTE PC-8602X	99	16	2.60	Silica	Dry blend/Bonding
SILBERCOTE PC-6222X	99	20	2.60	Silica	Dry blend/Bonding
SILBERCOTE PC-6792X	99	25	2.60	Silica	Dry blend/Bonding
SILBERCOTE PC-4852X	99	33	2.60	Silica	Dry blend/Bonding
SILBERCOTE PC-3331X	99	36	2.60	Silica	Dry blend/Bonding
SILBERCOTE PC-3101X	99	36	2.60	Silica	Dry blend/Bonding
SILBERCOTE PC-1291X	99	47	2.62	Silica	Dry blend/Bonding
SILBERCOTE PC-014XS	99	14	2.60	Advanced Silica	Dry blend/Bonding
SILBERCOTE PC-020XS	99	20	2.60	Advanced Silica	Dry blend/Bonding
SILBERCOTE PC-036XS	99	36	2.60	Advanced Silica	Dry blend/Bonding
SILBERCOTE PC-055XS	99	55	2.62	Advanced Silica	Dry blend/Bonding

## Dedusted Flake (DF) Series

Family	Percentage Non-volatile by Weight	D (50%) Microns	Specific Gravity	Surface Treatment	Application
DF-554	99.6	16	2.60	N/A	Bonding
DF L-520AR	99.6	20	2.60	N/A	Bonding

## Silvet Series

Family	Percentage Non-volatile by Weight	D (50%) Microns	Type	Solvent Carrier	Application
SILVET 210-20-J	99.5	15	Leafing	Aldehyde	Extrusion
SPARKLE SILVET 960-25-E	98.5	14	Non-leafing	Polyolefin	Extrusion
SPARKLE SILVET 960-30-E1	99	14	Non-leafing	Polyolefin	Extrusion
SPARKLE SILVET 960-20-J	99.5	14	Non-leafing	Aldehyde	Extrusion
SPARKLE SILVET 880-20-E	98.5	28	Non-leafing	Polyolefin	Extrusion
SPARKLE SILVET 880-20-J	99.5	28	Non-leafing	Aldehyde	Extrusion
SPARKLE SILVET 790-20-E	98.5	35	Non-leafing	Polyolefin	Extrusion
SPARKLE SILVET 790-20-J	99.5	45	Non-leafing	Aldehyde	Extrusion
SPARKLE SILVET 790-20-P	98.5	45	Non-leafing	Acrylic	Extrusion
SPARKLE SILVET 760-20-E	98.5	55	Non-leafing	Polyolefin	Extrusion
SPARKLE SILVET 764-30-E1	99	80	Non-leafing	Polyolefin	Extrusion

Abbreviations: EAC (Ethyl Acetate); GE (Glycol Ether); HA (High Aromatic); IA (Isopropyl Alcohol); MS (Mineral Spirits); NE (Nitroethane); PHS (Phosphate); SF (Surfactant)

**SILBERCOTE Powder Coating X** – High performance free-flowing aluminum pigment powder designed for electrostatic spray application. The individual aluminum flakes are coated with a uniform layer of silica which protects the aluminum particle from moisture and chemical degradation. These products are suitable for dry blending or bonding methods.

**SILBERCOTE Powder Coating XS** – Treated with an advanced proprietary silica surface encapsulation for use in demanding applications. The advanced treatment provides the highest degree of surface protection to the aluminum providing stability to harsh chemical environments such as alkali, acid, humidity, mortar, etc. The products are provided in the form of a free-flowing powder and are suitable for either dry blending or bonding methods.

**SILVET** – Dry, non-dusting granular form for ease of handling and dispersion when added to powder coatings by the extrusion method. The SILVET granules are available in a wide range of particle size, in leafing and non-leafing types and with either synthetic aldehyde, acrylic or polyolefin carrier resins. The product can be applied by electrostatic or tribo application. Care must be taken during extrusion and micronizing stages to avoid damage to the aluminum particles which can reduce brightness and sparkle.

## Vacuum Metalized Pigments

Family	Percentage Non-volatile by Weight	D (50%) Microns	Specific Gravity	Solvent Carrier*	Passivation
STARBRITE 6108-EAC	10	8	0.96	EAC	-
STARBRITE 2100-EAC	10	10	0.96	EAC	-
STARBRITE 4102-EAC	10	12	0.96	EAC	-
STARBRITE 5102-EAC	10	12	0.96	EAC	-
STARBRITE Reveal 4102-EAC	10	12	0.96	EAC	-
STARBRITE Reveal AQ 4172-PA	17	12	0.91	IA	PHS/SF
STARBRITE Reveal AQ 4172-PM	17	12	1.03	GE PM	PHS/ SF

\* Other carrier solvents are available.

Abbreviations: EAC (Ethyl Acetate); GE (Glycol Ether); HA (High Aromatic); IA (Isopropyl Alcohol); MS (Mineral Spirits); NE (Nitroethane); PHS (Phosphate); SF (Surfactant)

**STARBRITE** – Unique characteristics enable the formulator to achieve a smooth, mirror-like metallic effect with a highly-reflective, brilliant finish due to its exceptionally high surface area and aspect ratio. These products are supplied as 10% dispersion in ethyl acetate solvent, with certain other solvents available upon special request. STARBRITE Reveal offers broader compatibility and a greener manufacturing process.

**STARBRITE Reveal AQ** – Allows for mirror-like waterborne coatings to be produced. Good stability and compatibility are possible.



Silberline's technical service team can help you select the appropriate product grade, formulation or application technique for your specific process. By using high quality test methods and practices at Silberline's Center for Technical Functions and Advanced Manufacturing, customers get top notch help solving their most challenging aluminum coatings problems.

# Global Reach

Silberline has been an industry leader for over 70 years providing metallic pigments and technical expertise to industrial customers around the world. Whether you need special effect or performance-enhancing products for automotive, industrial coatings, graphic arts or plastics, contact The Architects of Light at your local office below or visit [www.silberline.com](http://www.silberline.com).



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