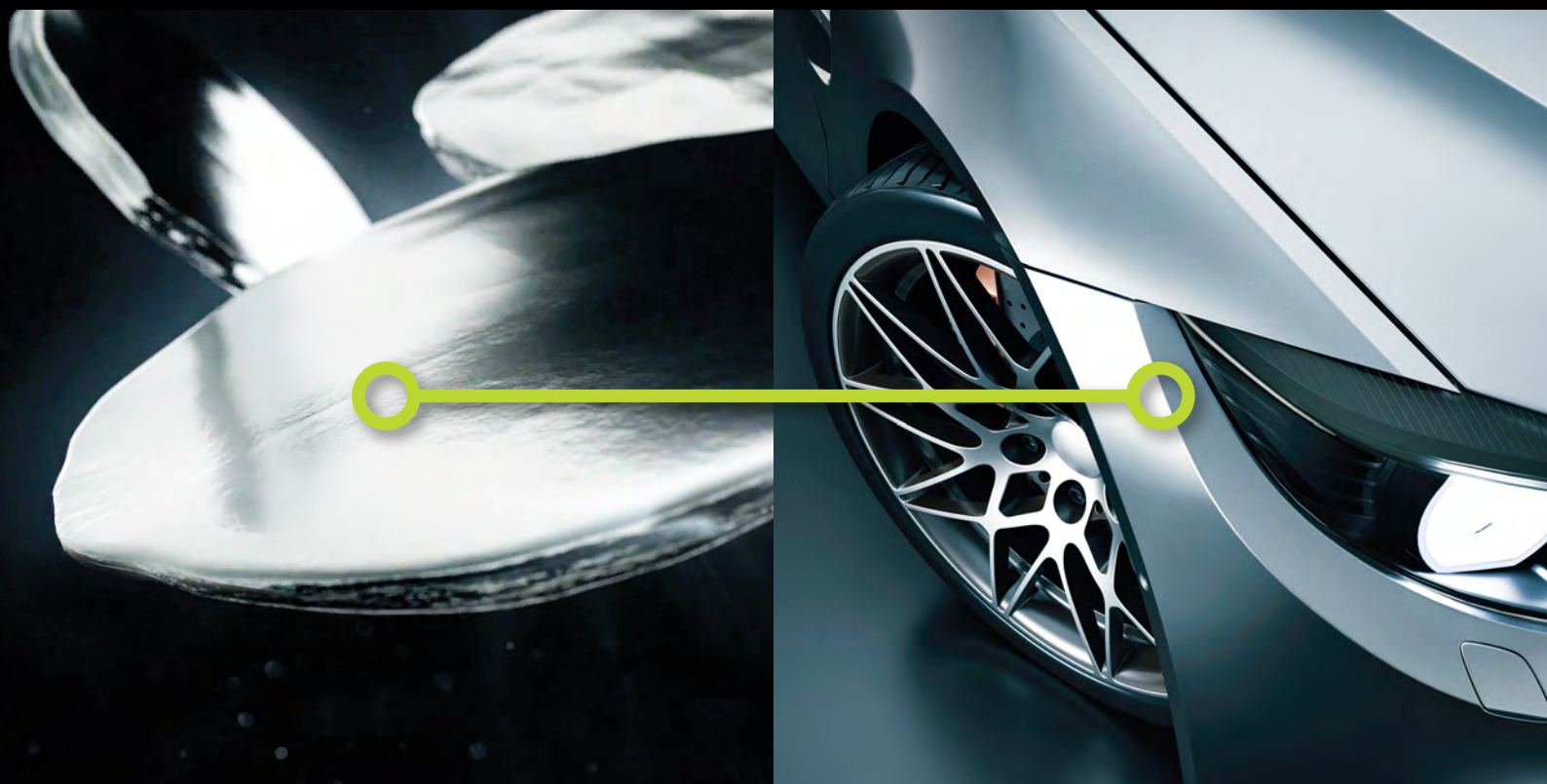


SILBERLINE®

FROM SCIENCE TO SHINE®

PAINT & COATINGS

Product Data and Selection Guide: Europe




WE ARE SILBERLINE.

**We transform raw materials from science to shine,
beautifying the products of our customers throughout the world.**

Silberline thrives on a passion for innovation in creating the finest aluminium pigments for the brightest, most appealing effects possible. We are equally committed to supporting a balanced environment by seeking sustainable solutions in all we do.

Silberline's many lines of aluminium pigments can be used in coatings for applications as diverse as automotive, plastics, graphics arts and general industrial. With a wide range of particle sizes, geometry and delivery form options, the possibilities for applying our products are as limitless as your imagination.

PIGMENT SERIES											
	Sustainable coatings	Automotive Solventborne OEM	Automotive Waterborne OEM	Automotive Solventborne Refinish	Automotive Waterborne Refinish	Automotive Parts and Accessories	Wheels	Automotive Interior	Solventborne Industrial Coatings	Waterborne Industrial Coatings	Powder Coatings
 Suitable											
SILBERCOTE® AQ Elite											
SILBERCOTE AQ Ultra Liquid Metal											
SILBERCOTE AQ Elite Liquid Metal											
SILBERCOTE AQ											
SILBERCOTE AQ Star											
SILBERCOTE AQ X-treme											
AQUAVEX® L/NL											
AQUAVEX NL Premier											
SPARKLE SILVER®											
SPARKLE SILVER Premier											
SILVER STAR®											
SPARKLE SILVER X-treme											
SPARKLE SILVER ULTRA®											
SPARKLE SILVER Elite											
SPARKLE SILVER ULTRA Liquid Metal											
SPARKLE SILVER Elite Liquid Metal											
SILBERCOTE PC											
SILBERCOTE AQG											
STARBRITE® Reveal											
SILBERCOTE Reveal AQJ											



ADVANCED ALUMINIUM PIGMENTS FOR WATERBASED APPLICATIONS

PRODUCTS + SPECIFICATIONS

Employing the latest in advanced milling and encapsulation techniques, Silberline technology has yielded exceptionally fine silver dollar flakes exhibiting a narrow particle size distribution and more uniform flake surfaces, with the gassing resistance and long-term stability required for waterbased paint systems. This product family allows finer, brighter metallic effects offering excellent face brightness with a deep flop and high gloss versus silver dollar pigments of a similar particle size. Used to create brilliant, high-gloss masstone silver colours or clean and vibrant tints.

SILBERCOTE AQ pigments are applicable for use in Automotive OEM, Refinish, and any industrial coating requiring high gloss and brilliant metallic sheen.


Inhibited Aluminium Paste for Waterborne Coatings

Family	Percentage Non-volatile by Weight	D (50%) Microns	Geometry	Solvent Carrier	Surface Treatment
SILBERCOTE AQ					
SILBERCOTE AQ Elite 010	60.0	10	Thin Milled Silver Dollar	GE	Silica
SILBERCOTE AQ Elite 012	60.0	12	Thin Milled Silver Dollar	GE	Silica
SILBERCOTE AQ Elite 014	60.0	14	Thin Milled Silver Dollar	GE	Silica
SILBERCOTE AQ Ultra 011 Liquid Metal	60.0	11	Thin Milled Silver Dollar	GE	Silica
SILBERCOTE AQ Ultra 020 Liquid Metal	60.0	20	Thin Milled Silver Dollar	GE	Silica
SILBERCOTE AQ Elite 011 Liquid Metal	60.0	11	Thin Milled Silver Dollar	GE	Silica
SILBERCOTE AQ Elite 015 Liquid Metal	60.0	15	Thin Milled Silver Dollar	GE	Silica

Silbercote AQ Elite - Finer, brighter metallic effects offering excellent face brightness with a deep flop and high gloss. Used to create brilliant, high-gloss masstone silver colours or clean and vibrant tints.

Silbercote AQ Ultra Liquid Metal - These exceptionally fine thin milled silver dollar milled aluminium flakes with a highly polished surface can be formulated use within a multitude of coatings.

Silbercote AQ Elite Liquid Metal - The flakes of the Elite Liquid Metal series are brighter, providing significantly more hiding than the SPARKLE SILVER ULTRA Liquid Metal series. These ultra fine thin milled silver dollar milled aluminium flakes with a highly polished surface can be formulated for use within a multitude of coatings.



No matter where you are,
we've got you covered.

ALUMINIUM PIGMENTS FOR WATERBORNE COATINGS

PRODUCTS + SPECIFICATIONS

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 optimise the interaction with the aluminium flake surface, imparting outstanding performance and stability while maintaining optimum aesthetics. Silberline can apply its passivation technology to any traditional aluminium pigment we manufacture, resulting in a wide range of possible metallic effects. In addition, each batch of passivated aluminium pigment is tested and approved for gassing stability prior to shipment.

Inhibited Aluminium Paste for Waterborne Coatings

Family	Percentage Non-volatile by Weight	D (50%) Microns	Geometry	Solvent Carrier	Surface Treatment
SILBERCOTE AQ					
SILBERCOTE AQ E5000-F3X	50.0	15	Corn Flake	GE	Silica
SILBERCOTE AQ E2169-F3X	50.0	15	Corn Flake	GE	Silica
SILBERCOTE AQ E666-F2X	50.0	20	Corn Flake	GE	Silica
SILBERCOTE AQ 3500-F2X	50.0	28	Corn Flake	GE	Silica
SILBERCOTE AQ 3130-F1X	58.0	36	Corn Flake	GE	Silica
SILBERCOTE AQ E2140-F3X	50.0	14	Silver Dollar	GE	Silica
SILBERCOTE AQ E554-F2X	50.0	17	Silver Dollar	GE	Silica
SILBERCOTE AQ 551-G2X	54.0	17	Silver Dollar	PM	Silica
SILBERCOTE AQ E2154-F2X	50.0	18	Silver Dollar	GE	Silica
SILBERCOTE AQ E354-F3X	58.0	26	Silver Dollar	GE	Silica
SILBERCOTE AQ Star 012	60.0	12	Silver Dollar	GE	Silica
SILBERCOTE AQ Star 015	60.0	16	Silver Dollar	GE	Silica
SILBERCOTE AQ Star 018	60.0	18	Silver Dollar	GE	Silica
SILBERCOTE AQ X-treme 17	55.0	17	Silver Dollar	GE	Silica
SILBERCOTE AQ X-treme 20	60.0	20	Silver Dollar	GE	Silica
SILBERCOTE AQ ULTRA 6704-F4X	50.0	11	Advanced Silver Dollar	PM/PnB	Silica
SILBERCOTE AQ ULTRA 6555-F2X	60.0	18	Advanced Silver Dollar	PM/PnB	Silica

Abbreviation: GE (Glycol Ether); PM (1-methoxy-2-propanol); PnB (3-butoxypropan-2-ol)

SILBERCOTE AQ – Passivated aluminium pigments use advanced technology to encapsulate each individual flake of aluminium 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 aluminium pigments and has been found to also enhance the circulation stability of the pigment while maintaining the flake integrity, shape and coloristic properties.

Note: Low VOC versions of the full Silbercote family are available upon request see page 10.



Passivated Aluminium Pigments for Waterborne Coatings

Family	Percentage Non-volatile by Weight	D (50%) Microns	Geometry	Type	Carrier
AQUAVEX					
AQUAVEX L 010	98.5	10	Corn Flake	Leafing	SF
AQUAVEX NL 010	98.5	10	Corn Flake	Non-Leafing	SF
AQUAVEX NL 013	98.5	13	Corn Flake	Non-Leafing	SF
AQUAVEX NL 015	98.5	15	Corn Flake	Non-Leafing	SF
AQUAVEX NL Premier 011	98.5	12	Silver Dollar	Non-Leafing	SF
AQUAVEX NL Premier 016	98.5	16	Silver Dollar	Non-Leafing	SF

Abbreviation: PHS (Phosphate); SF (Surfactant)

AQUAVEX – Passivation utilises advanced phosphate technology to stabilise the aluminium 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% aluminium pigment, is low dusting and is virtually solvent-free. AQUAVEX NL has a pigment content of 75% and improves adhesion to substrate and clear coat. It is recommended that AQUAVEX NL granules are allowed to soak in plain water for no longer than 3 hours and always in an unsealed or vented container prior to being converted into the final ink.



ALUMINIUM PIGMENTS FOR SOLVENTBORNE COATINGS

PRODUCTS + SPECIFICATIONS

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

Corn Flake Aluminium Paste for Solventborne Coatings

Family	Percentage Non-volatile by Weight	D (50%) Microns	Maximum Percentage Retained 325 Mesh	Solvent Carrier
SPARKLE SILVER				
SPARKLE SILVER 7540	64.0	8	0.10 ¹	MS/HA
SPARKLE SILVER 7005-AR	62.0	10	0.10 ¹	MS/HA
SPARKLE SILVER 6544	64.0	14	0.01 ¹	MS/HA
SPARKLE SILVER E-5000-AR	64.0	15	0.01	MS/HA
SPARKLE SILVER E-5306-AR	60.0	15	0.01	MS/HA
SPARKLE SILVER E-5245 AR	60.0	20	0.01 ¹	MS/HA
SPARKLE SILVER 3400-AR	60.0	22	0.01	MS/HA
SPARKLE SILVER 3500*	65.0	27	2.00	MS/HA
SPARKLE SILVER E-3000 AR	65.0	28	2.00	MS/HA
SPARKLE SILVER E-3166 AR	60.0	30	5.00	MS/HA
SPARKLE SILVER 3141-ST*	66.0	30	1.00	MS/HA
SPARKLE SILVER 3666*	60.0	30	5.00	MS/HA
SPARKLE SILVER E-3199 AR	60.0	31	2.00	MS/HA
SPARKLE SILVER 3130-AR*	74.0	36	1.00	MS/HA
SPARKLE SILVER E-3122-AR	75.0	38	1.00	MS/HA
SPARKLE SILVER E-3622	75.0	38	1.00	MS/HA
SPARKLE SILVER 2748	73.0	47	5.00 ²	MS/HA
SPARKLE SILVER 1550	75.0	80	1.00 ³	MS/HA

Abbreviations: HA (High Aromatic); MS (Mineral Spirits) * Produced Globally

¹ Maximum Percentage Retained 400 Mesh

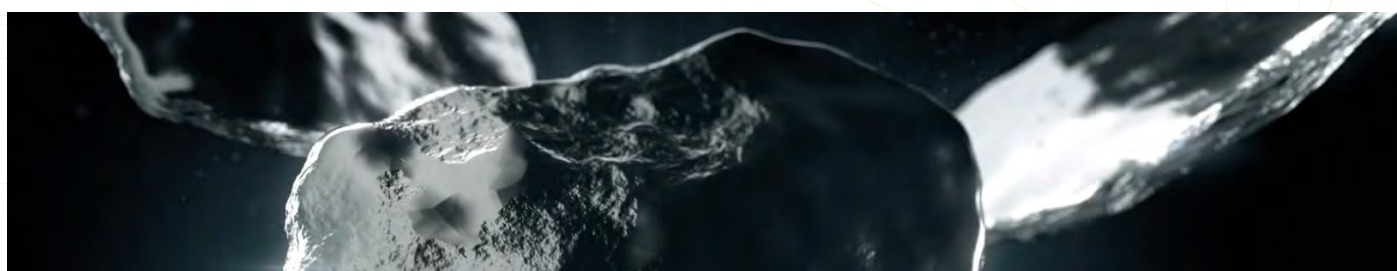
² Maximum Percentage Retained 230 Mesh

³ Maximum Percentage Retained 100 Mesh

CORN FLAKE ALUMINIUM PASTES

This range of pigments consists of corn flake shaped aluminium pigments in paste versions.

Most of the grades, including the SPARKLE SILVER series, have been designed with technology to polish the aluminium flake surface in combination with a controlled particle size distribution allowing them to have a wide application in solventborne coatings. The wide range of particle sizes available allows for formulations of high opacity, smooth patina metallic silver effects and tints through to highly sparkling effects.



Silver Dollar Aluminium Paste for Solventborne Coatings

Family	Percentage Non-volatile by Weight	D (50% Microns	Maximum Percentage Retained 325 Mesh	Carrier
SPARKLE SILVER				
SILVER STAR 012	70.0	12	0.01	MS/HA
SILVER STAR 015	70.0	15	0.01	MS/HA
SILVER STAR 018	70.0	18	0.01	MS/HA
SPARKLE SILVER Premier 568	64.0	13	0.01	MS/HA
SPARKLE SILVER Premier E-504-AR	70.0	15	0.01	MS/HA
SPARKLE SILVER Premier E-554	70.0	17	0.01	MS/HA
SPARKLE SILVER Premier 303-AR *	70.0	20	0.01	MS/HA
SPARKLE SILVER Premier 313-AR *	70.0	22	0.01	MS/HA
SPARKLE SILVER Premier 353 *	70.0	23	0.01	MS/HA
SPARKLE SILVER Premier E-354	70.0	26	0.01	MS/HA
SPARKLE SILVER Premier 352	70.0	31	0.01	MS/HA
SPARKLE SILVER X-treme 17	72.0	17	0.01	MS/HA
SPARKLE SILVER X-treme 20	72.0	20	0.01	MS/HA
SPARKLE SILVER ULTRA 7908	70.0	7	0.01	MS/HA
SPARKLE SILVER ULTRA 7807	73.0	9	0.01	MS/HA
SPARKLE SILVER ULTRA 6704	77.0	11	0.01	MS/HA
SPARKLE SILVER ULTRA 6757	65.0	12	0.01	MS/HA
SPARKLE SILVER ULTRA 6658	65.0	15	0.01	MS/HA
SPARKLE SILVER ULTRA 6555	75.0	17	0.01	MS/HA

Abbreviations: HA (High Aromatic); MS (Mineral Spirits) * Produced Globally

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 colours.

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, wheels, parts and accessory coatings.

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 colour 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.

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 colours. This grade is designed for the stylist to raise the bar in metallic effects and creativity.



Thin Milled Silver Dollar Aluminium Paste for Solventborne Coatings

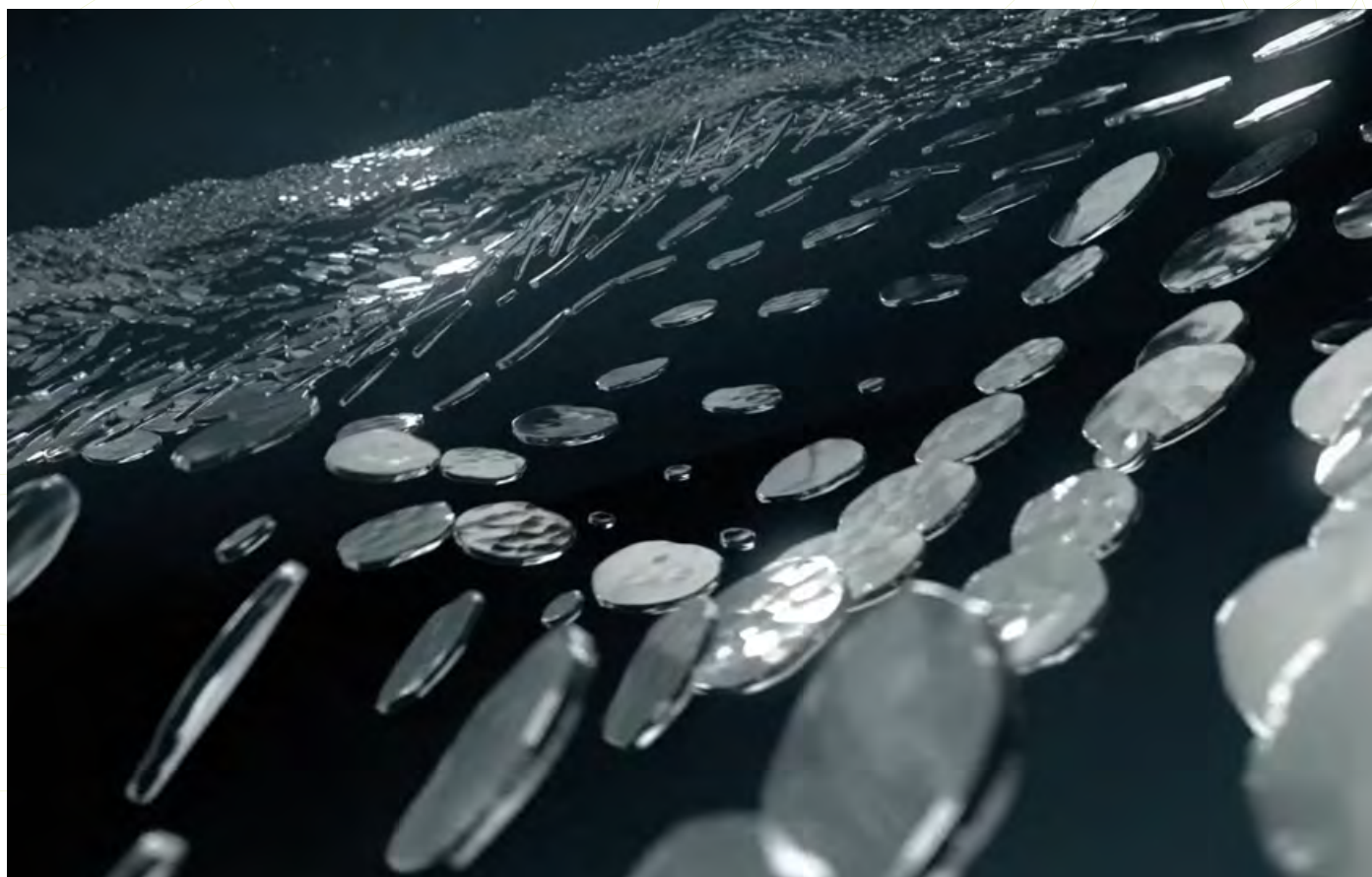
Family	Percentage Non-volatile by Weight	D (50%) Microns	Maximum Percentage Retained 325 Mesh	Carrier
SPARKLE SILVER				
SPARKLE SILVER Elite 008*	70.0	8	0.01	MS/HA
SPARKLE SILVER Elite 010	72.0	10	0.01	MS/HA
SPARKLE SILVER Elite 012	72.0	12	0.01	MS/HA
SPARKLE SILVER Ultra 011 Liquid Metal	65.0	11	0.01	MS/HA
SPARKLE SILVER Ultra 015 Liquid Metal	65.0	15	0.01	MS/HA
SPARKLE SILVER Ultra 020 Liquid Metal*	65.0	20	0.01	MS/HA
SPARKLE SILVER Elite 011 Liquid Metal	70.0	11	0.01	MS/HA
SPARKLE SILVER Elite 015 Liquid Metal	65.0	15	0.01	MS/HA

Abbreviations: HA (High Aromatic); MS (Mineral Spirits) * Produced Globally

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 colours or clean and vibrant tints.

SPARKLE SILVER Ultra Liquid Metal - These fine thin milled silver dollar aluminium 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.

SPARKLE SILVER Elite Liquid Metal - The flakes of the Elite Liquid Metal series are brighter, providing significantly more hiding than the SPARKLE SILVER ULTRA Liquid Metal series. These ultra fine thin milled silver dollar 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.



ALUMINIUM PIGMENTS FOR POWDER COATINGS

PRODUCTS + SPECIFICATIONS

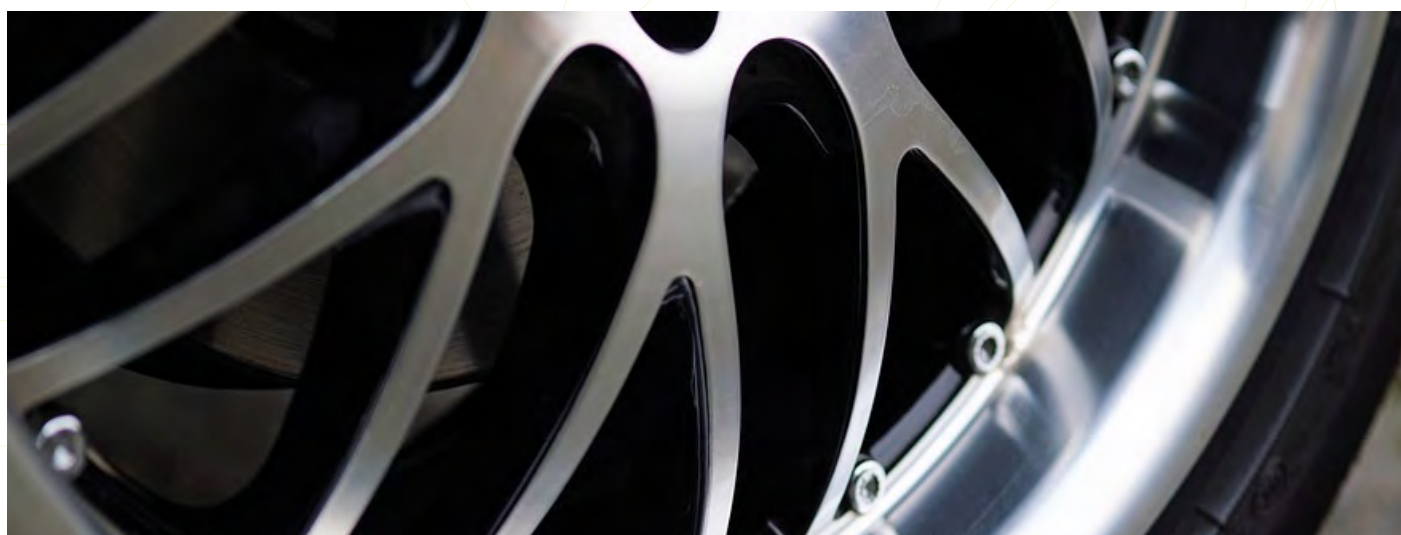
The following product families are designed to provide value to the powder coatings manufacturer based on performance in the finished powder coating. The products provide compatibility across a full range of powder coating types and support the demands of virtually any application.

Aluminium Pigments for Powder Coatings

Family	Percentage Non-volatile by Weight	D (50%) Microns	Surface Treatment	Application
SILBERCOTE PC				
SILBERCOTE PC E-3087	99.0	13	Silica	Dry blend/Bonding
SILBERCOTE PC-8153X	99.0	15	Silica	Dry blend/Bonding
SILBERCOTE PC-8602X	99.0	16	Silica	Dry blend/Bonding
SILBERCOTE PC-6222X	99.0	20	Silica	Dry blend/Bonding
SILBERCOTE PC-6792X	99.0	26	Silica	Dry blend/Bonding
SILBERCOTE PC-4852X	99.0	33	Silica	Dry blend/Bonding
SILBERCOTE PC-3331X	99.0	36	Silica	Dry blend/Bonding
SILBERCOTE PC-3101X	99.0	37	Silica	Dry blend/Bonding
SILBERCOTE PC-1291X	99.0	47	Silica	Dry blend/Bonding
SILBERCOTE PC-014XS	99.0	14	Advanced Silica	Dry blend/Bonding
SILBERCOTE PC-020XS	99.0	20	Advanced Silica	Dry blend/Bonding

SILBERCOTE Powder Coating X – High-performance, free-flowing aluminium pigment powder designed for electrostatic spray application. The individual aluminium flakes are coated with a uniform layer of silica which protects the aluminium 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 aluminium providing stability to harsh chemical environments such as alkali, acid, humidity, mortar, etc. These products are provided in the form of a free-flowing powder and are suitable for either dry blending or bonding methods.



ALUMINIUM PIGMENTS FOR SUSTAINABLE COATINGS

PRODUCTS + SPECIFICATIONS

With the increased demand for sustainable solutions, Silberline are proud to have developed some best in class aluminium pigments to help our customers deliver more sustainable offerings to their customer base. Whether that be lowering carbon footprint, improving recyclability reducing substances of concern we have you covered.

Silberline is pleased to announce the introduction of our next-generation aluminium flake pigment granules for the Automotive and Industrial Waterborne Coatings markets: SILBERCOTE AQ-G. This new sustainable product family is derived from our proven silica-encapsulation technology and offers excellent gassing stability, low VOCs and low odour due to the removal of all processing and carrier solvents.

SILBERCOTE AQ-G granules are classified as non-flammable solids, are non-regulated for transport and APEO free. Benefits such as high metal content and easy dispersion in most resin systems allows for more economical cost-in-use vs. standard silica treated pastes. SILBERCOTE AQ-G granules also exhibit excellent compatibility with solvents typically used in waterbased systems.

SILBERCOTE AQ-G

Family	Percentage Non-volatile by Weight	D (50%) Microns	Geometry	Surface Treatment
SILBERCOTE AQ-G				
SILBERCOTE AQ-G E2169	≥99.5%	15	Corn Flake	Silica
SILBERCOTE AQ-G E666	≥99.5%	20	Corn Flake	Silica
SILBERCOTE AQ-G 3130	≥99.5%	36	Corn Flake	Silica
SILBERCOTE AQ-G Star 012	≥99.5%	12	Silver Dollar	Silica
SILBERCOTE AQ-G Star 018	≥99.5%	18	Silver Dollar	Silica
SILBERCOTE AQ-G E354	≥99.5%	26	Silver Dollar	Silica
SILBERCOTE AQ-G Elite 011LM	≥99.5%	11	Thin Milled Silver Dollar	Silica
SILBERCOTE AQ-G Elite 015LM	≥99.5%	15	Thin Milled Silver Dollar	Silica
SILBERCOTE AQ-G Ultra 020LM	≥99.5%	20	Thin Milled Silver Dollar	Silica



STARBRITE Reveal

Mirror-like Effect Using Aluminium Pigments Manufactured by a Unique Sustainable Vacuum Metallised Process.

STARBRITE Reveal: Mirror-like Effect Using Aluminium Pigments Manufactured by an Unique Sustainable Vacuum Metallised Process. Silberline has successfully developed a genuine sustainable manufacturing process for vacuum-metallised pigment (VMP) to better serve our customers' needs. Silberline designates this process "Reveal".

Traditional VMP production uses PET foil as a substrate. The PET substrate that makes up a VMP feed roll requires the input of raw materials, energy, and water. These raw materials are typically petroleum and natural gas products which are transported and converted into plastic feeds. With this traditional method of manufacture 1kg of vacuum-metallised pigment generates 25kg of plastic waste.

The market demand for a sustainable VMP solution is growing exponentially. The Reveal process does not utilise any single-use plastic substrate meaning a 100% reduction of the equivalent carbon footprint. No amount of recycling or sustainable practice in a plastic's lifecycle can do that. Let Silberline help you and your customer solve the plastic sustainability problem with the only truly sustainable solution to Vacuum-Metallised Pigments.

Vacuum Metallised Pigments

Family	Percentage Non-volatile by Weight	D (50%) Microns	Solvent Carrier*	Passivation
STARBRITE				
STARBRITE Reveal 4102-EAC*	10.0	12	EAC	-
SILBERCOTE Reveal AQ J 8100	10.0	10	PM	-
STARBRITE Reveal UV 4201	20.0	11	TMPTA (TMP(EO)3TA)	✓

Abbreviations: EAC (Ethyl Acetate); GE (Glycol Ether); PM (1-Methoxy – 2-Propanol); TMPTA (TMP(EO)3TA) (Ethoxylated trimethylolpropane triacrylate)

* Other carrier solvents are available. Traditional VMFs are available upon request.

STARBRITE Reveal - The original Starbrite Reveal, dispersed in ethyl acetate. It provides a smooth, chrome-like metallic effect that produces highly reflective and brilliant finishes. Specular aluminium platelets, mirror-like appearance and free from any fatty acids.

SILBERCOTE Reveal AQJ - Enhanced Silica encapsulation allows for mirror-like waterborne coatings to be produced. Providing excellent stability, enhanced chemical and circulation resistance and compatibility with various systems are possible.

STARBRITE REVEAL UV 4201 - Stabilised vacuum metallised pigment for use in UV curing systems. The pigment provides a smooth chrome-like metallic appearance in inks and coatings.



No matter where you are,
we've got you covered.

SILBERLINE®
FROM SCIENCE TO SHINE®

Silberline customer service centers around the globe are ready to assist you with product samples, literature requests, technical assistance and more. From concept to commercialisation and all stages in between, we are at your service with prompt, proven performance.

For assistance in selecting the Silberline products to meet your needs or to request product literature, contact your local Silberline representative.

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Please contact the Silberline location in your region to request product samples or additional information including regulatory compliance.

[silberline.com](https://www.silberline.com)