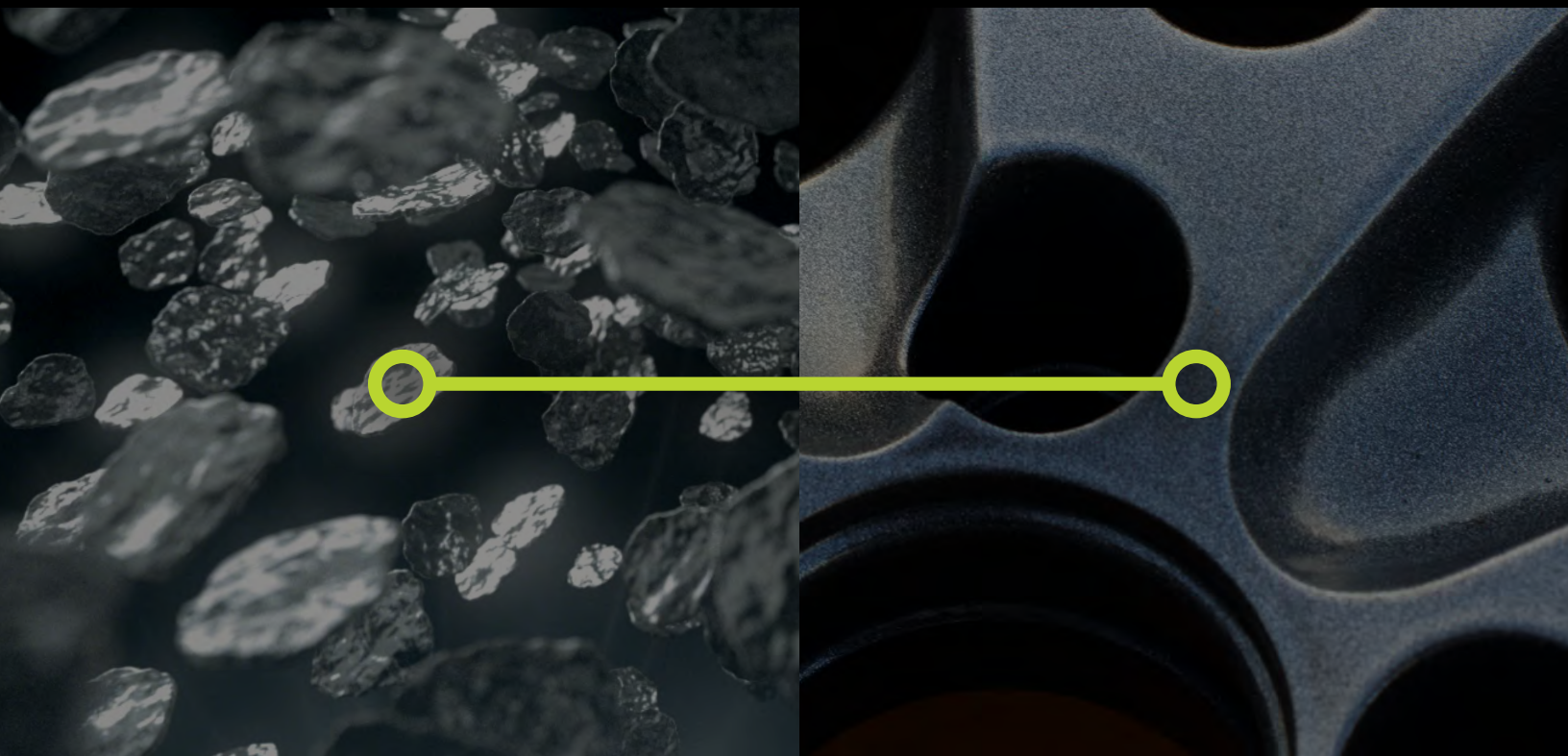


SILBERLINE™

FROM SCIENCE TO SHINE™

# POWDER COATINGS

Product Data and Selection Guide: North America



Silberline places a heavy emphasis on the development of metallic effects for use in more environmentally friendly powder coatings.

Using Silberline metallic effects in powder coatings gives them a luster and brilliance that truly sets them apart from finishes produced by standard pigments. Aluminum effects for powder coatings are available as non-leaving pigments, and in a variety of particle sizes that result in a range of shades and effects.



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





## SILBERCOTE® PCXS GRADES

These products represent a generation of increased chemical resistant aluminum pigments for use in powder coatings. These products offer excellent chemical resistance to standard encapsulated grades (Silbercote PCX). They perform very well in all dry blending and bonding applications.

Family	Particle Size D50 (µm) Approx	Flake	Surface Treatment	Chemical Resistance	Suitable Application
<b>SILBERCOTE PCXS</b>					
SBC PC055XS	55	SD	Advanced Sol-Gel Silica	+++	Dry Blend/Bonding
SBC PC036XS	36	CF	Advanced Sol-Gel Silica	+++	Dry Blend/Bonding
SBC PC020XS	20	CF	Advanced Sol-Gel Silica	+++	Dry Blend/Bonding
SBC PC014XS	14	CF	Advanced Sol-Gel Silica	+++	Dry Blend/Bonding

CF = Corn Flake, SD = Silver Dollar

Rating: ++++ = Superior, +++ = Excellent, ++ = Very Good, + = Good, 0 = Fair

## SILBERCOTE® PCX GRADES

Aluminum pigments encapsulated with an inorganic treatment and available in a wide range of particle sizes. These products work very well in all dry blending and bonding applications to produce a variety of bright metallic effects and functionality.

Family	Particle Size D50 (µm) Approx	Flake	Surface Treatment	Chemical Resistance	Suitable Application
<b>SILBERCOTE PCX</b>					
SBC PC1291X	47	CF	Sol-Gel Silica	++	Dry Blend/Bonding
SBC PC3101X	36	CF	Sol-Gel Silica	++	Dry Blend/Bonding
SBC PC3331X	36	SD	Sol-Gel Silica	++	Dry Blend/Bonding
SBC PC4852X	33	SD	Sol-Gel Silica	++	Dry Blend/Bonding
SBC PC6792X	25	SD	Sol-Gel Silica	++	Dry Blend/Bonding
SBC PC6222X	20	CF	Sol-Gel Silica	++	Dry Blend/Bonding
SBC PC8602X	16	SD	Sol-Gel Silica	++	Dry Blend/Bonding
SBC PC8153X	14	CF	Sol-Gel Silica	++	Dry Blend/Bonding
SBC PCE3087	13	CF	Sol-Gel Silica	++	Dry Blend/Bonding

CF = Corn Flake, SD = Silver Dollar

Rating: ++++ = Superior, +++ = Excellent, ++ = Very Good, + = Good, 0 = Fair

# SILBERCOTE® PCZ GRADES

Based on a proprietary polymer encapsulation technology, these products provide an alternative to silica encapsulated grades. They exhibit a better electrostatic response than inorganic treatments.

Family	Particle Size D50 (µm) Approx	Flake	Surface Treatment	Chemical Resistance	Suitable Application
<b>SILBERCOTE PCZ</b>					
SBC PC1303Z	46	CF	Acrylic Polymer	++	Dry Blend/Bonding
SBC PC7166Z	17	CF	Acrylic Polymer	++	Dry Blend/Bonding

CF = Corn Flake, SD = Silver Dollar

Rating: +++++ = Superior, +++ = Excellent, ++ = Very Good, + = Good, 0 = Fair

## DEDUSTED FLAKE

Treated with Teflon® to substantially cut down on dusting associated with dried powder grades. These products are solely for use in bonding applications.

Family	Particle Size
<b>Dedusted Flake</b>	
DF-554	16
DF-L520 AR	20

## LED GRADES

These grades are encapsulated in a polymer coating and dedusted with Teflon®. They exhibit better chemical resistance and the same low dusting properties as the DF grades. These products are also solely for use in the bonding process.

Family	Particle Size
<b>LED Grades</b>	
LED-2314 AR	13
LED-1708 AR	20

## EXTRUDABLE GRADES

These grades are processed in various carriers. They could be blended directly into the raw mix and processed along with the powder coating. They are non-dusting and eliminate the need for the bonding process. The resulting coatings have an excellent electrostatic response and can be used in reclaim systems. SPARKLE SILVET® grades are carried in a polyolefin pellet (E), a polyolefin granule (E1), and aldehyde carrier (J) and an acrylic carrier (P). The most commonly used products are:

Family	Particle Size	Available Carriers
<b>SPARKLE SILVET</b>		
960 Series	14	E, E1, J, P
880 Series	27	E, J
790 Series	35 & 47	E, E1, J, P
760 Series	55	E, E1

In addition to the products above, we offer a variety of micron sizes and flake geometries to satisfy all the requirements of the powder coatings market.

# BONDING AND DRY BLENDING

SILBERCOTE PC Elite, PC Lux, PCXS, PCX and the polymer encapsulated grades are all suitable for use in dry blending and bonding processes. In the powder coating bonding process, the aluminum flake pigment is physically attached to the exterior surface of the powder coating particles by a combination of physical action and heat. The main advantages of the bonding process include:

- No separation of the pigment from the powder
- Excellent recyclability of overspray
- Uniform application, resulting in good coloristic effects

# SAFETY AND HANDLING

Products should be stored in the original shipping container and kept tightly sealed. Store containers in a cool, dry, well ventilated, and properly rated area. Avoid any conditions that will suspend or float the particles in the air, creating a dust cloud. Avoid all possible sources of ignition. For additional information, please refer to the MSDS for this product, available from Silberline upon request. A Material Safety Data Sheet is supplied with all samples of this grade.

All statements, information and data presented herein are believed to be accurate and reliable but are not to be taken as a guarantee, express warranty or implied warranty of merchantability or fitness for a particular purpose, or representation, express or implied, for which seller assumes legal responsibility, and they are offered solely for your consideration, investigation and verification. Statements or suggestions concerning possible use of this product are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe on any patent.



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

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

For technical assistance, email us at: [technology@silberline.com](mailto:technology@silberline.com) or call us at 570-668-6050 or 877-492-7881 (toll-free in U.S. and Canada). 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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