



GerberColor™ Transparent (GCT) Series Foils

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DESCRIPTION

GerberColor Transparent (GCT) Series Cartridges are durable, dimensionally stable, resin-based foils designed for use with Gerber Digital Color Printing Systems and EDGE READY™ materials. GCT Cartridges produce printed graphics capable of withstanding severe weather and handling conditions in both commercial and industrial applications.

Colors	
GCT-37 Sapphire Blue	GCT-617 Blue
GCT-128 Plum Purple	GCT-13 Tomato Red
GCT-643 Red	GCT-116 Green
GCT-49 Burgundy	GCT-629 Brown
GCT-614 Orange	GCT-105 Gold
GCT-625 Yellow	

When printed on white EDGE READY™ materials, GCT-617, GCT-116, GCT-643 and GCT-13 meet the color visibility safety standards ANSI Z535.4-1991 for OSHA and 3864-1984 (E) for ISO. In addition, GCT-629 meets the color visibility safety standards ANSI Z535.4-1991 for OSHA only.

INTENDED APPLICATIONS

This unique transparent feature allows the characteristics of the base EDGE READY material to come through and be enhanced - reflectives reflect, metallics sparkle, chrome-finished films

shine brightly, and translucents light up like never before. GCT foils can also be used on opaque films for traditional spot color applications.

GCT Foils can be used to enhance reflective, metallic, holographic, vinyls etc.. Unlike the opaque GerberColor Spot (GCS) Series Foils, GCT graphics will not cover a film's visual properties. Retro-reflectivity, mirror finish, metallic chips, etc. are retained and colors can be overprinted to create new shades. GCT Foils are well suited to backlit or opaque applications. To ensure color consistency, we recommend "double hitting" transparent graphics that will be backlit.

Since these colors are transparent, the color may shift when printed on substrates other than white or clear. The user should determine the suitability of all substrates.

Most materials that GCT Foils would be printed on are not intended for use where they may be exposed to petrochemical spillage. If petrochemical contact is anticipated, refer to the section below on protecting graphics.

APPLICATION TECHNIQUES

Gerber standard tack application tape is required for all graphics produced with Gerber Digital Color Printing Systems. Printed graphics should be allowed to cure for 15 minutes prior to application of transfer tape.

PERFORMANCE LIFE

When printed on EDGE READY materials and applied vertically, GCT Foils will have a performance life of three years.

Performance statements are based upon field experience and exposure tests conducted throughout the United States using solid fill prints. Substrate selection, exposure angle, environmental conditions, and maintenance of markings will affect actual performance. Continuous exposure in regions that experience maximum sunny days will result in decreased performance. This product is not recommended for horizontal applications.

PRINTING

GCT Foils are compatible with EDGE READY materials. GCT foils are also compatible in overprint combinations (GerberColor Spectratone™) with the following GerberColor Series: GerberColor Process (GCP) SUPER CMYK™, GerberColor Spot (GCS), and GerberColor Medal (GCM). GCM Foils should not be used as the underlayer in an overprint construction. GCT Foils are not recommended for use with Heat Transfer Paper.

If your software color selection palette does not have GCT Foils, select a corresponding GerberColor Spot Series Foil. (Contact your distributor or Gerber Tech Support for a palette upgrade.)

Minimum environment temperature for printing is 40° F (4° C).

PROTECTING GRAPHICS

Gerber Scientific Products, Inc., offers these other products that are designed to protect vinyl and printed graphics.

Gerber Guard™ is a durable, dimensionally stable, glossy vinyl overlamine. This film has a petrochemical-resistant construction that is suitable for protecting markings that may be exposed to petrochemical spillage and/or severe handling conditions.

Gerber UVGuard™ G5 is a 1-mil, high-gloss, clear polyester film that is graffiti resistant and provides 5-year protection from the sun.

Gerber UVGuard™ 9 is a glossy 1-mil, clear, polyvinylfluoride laminating film that provides 9-year protection from the sun.

GerberColor Abrasion Guard™ SPF (GCF-214) and Matte Clear (GCF-334) foils are two finishing foils designed to protect graphics from moderate contact or handling. Abrasion Guard is a clear, topcoat foil and Matte Clear is a matte-finish topcoat foil.

SHELF LIFE AND STORAGE

Printed graphics should be applied within one year. GerberColor Foils, film and printed graphics (with or without premask) should be kept in a clean area free from excessive moisture and direct sunlight. Store foils below 100° (38° C) and within 40% to 60% humidity. When not in use, cartridges should be kept in their package sleeves.

Use a paper interleaf between printed materials that are rolled or stacked. Do not store printed graphics face to face.

MAINTENANCE

To clean printed graphics, use a mild, non-abrasive soap with a soft cloth or sponge. Avoid using alcohol-based cleansers or soaps containing grit or abrasives. Automated vehicle washing systems that use rotary cleaning brushes should also be avoided.

PHYSICAL PROPERTIES

Foils	
Pigment	Resin Based
Color Coat	3.5to 4.1 microns
Liner Thickness	5.7 microns
Foil Length - <i>minimum</i>	49.21 yards (45 meters)

Cartridge	
Cores	Polyethylene
End Shell	ABS Plastic
End Plugs	ABS Plastic
Side Rails	ABS Plastic
Cartridge Weight	1 lb. 12 oz.

CHEMICAL RESISTANCE (Printed on Gerber High Performance Series 220)

Chemical Agent	Exposure Time	Results
Water	24 Hours	No Effect
SAE 20 Motor Oil	24 Hours	No Effect
50/50 Ethylene Glycol/Water	24 Hours	No Effect

Chemical Agent	Exposure Time	Results
10% Hydrochloric Acid	10 Minutes	No Effect
10% Ammonium Hydroxide	10 Minutes	No Effect
Mineral Spirits	10 Minutes	No Effect
Dish Detergent/Water	24 Hours	No Effect

RELATED LITERATURE

GerberColor Process (GCP) SUPER CMYK™, GerberColor Medal (GCM) Series, GerberColor Transparent (GCT) Series, GerberColor Finishing (GCF) Series, Gerber Guard, GerberColor Abrasion Guard SPF (GCF), and Gerber UVGuard G5 and 9 Product Bulletins.

For help with questions concerning Gerber products, please call your distributor or Gerber Customer Service at 1-800-222-7446 or (860) 644-1515.

GerberColor, EDGE READY, GerberColor SUPER CMYK, GerberColor Spectratone, Gerber UVGuard G5 and 9, Gerber Guard, and Abrasion Guard SPF are Trademarks of Gerber Scientific Products, Inc. 3M and Scotchcal are Trademarks of the 3M Corporation.

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Category: GerberColor Foils **FastFact #:** 5564 **Supplied by:** Aftermarkets **Last Modified:** 3/28/12