



INFINITY®

FOILS, INCORPORATED

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Foil Grade Workability Guide

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Your online resource for quality stamping foils, decorative glitter
and makeready supplies at a significant savings.

This Infinity® Foils shade guide contains foil products specifically for the graphic arts industry. We offer a wide-range of foil grades to meet the needs for hot stamping, cold foiling and digital foiling applications. Each of our premiere grades are developed for optimum performance and reliability. The Infinity® Foils, Inc. grades range from broad to specific requirements. We recommend always checking www.infinityfoils.com for our complete foil grade offering.

Selecting grades is determined by different factors including, but not limited to: effect, speed, overprinting, over stamping, type of equipment applying the foil and substrate or material being decorated. Infinity® Foils, Inc. also offers additional foil shade guides for other industries including textile, home décor, and plastics.

Product Line	Release	Workability Brief	Substrate	Temperature	Definition / Coverage	Product Performance	Industries/ Applications
Hot Stamping Metallic Foils	MX	Good general purpose foil. Designed to stamp a wide variety of paper substrates, as well as, most rigid plastics. Commonly utilized for applications on sheet fed presses. Readily stocked in most Infinity Foils Metallic Shades.	Uncoated paper, printed paper, embossed paper, coated paper, PVC labels, OPP film laminated paper.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Rotary: 260°F - 320°F / 130°C - 160°C	Fine to medium details, easy release	Good abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product. Overprint dependent on inks, image and substrate.	Commonly used in commercial printing applications, packaging, greeting card/ social stationery, and labels.
	MH	Specifically developed and formulated for applications that need to accomplish both fine line details, as well as, larger details. Successful in stamping either paper or film applications and can be run on both high speed rotary and sheet fed presses. Readily stocked in most all Infinity Foils metallic shades.	Most coated and uncoated graphic arts paper, films, vinyls.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Rotary: 260°F - 320°F / 130°C - 160°C	Medium fine to medium broad details	Good abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product. Overprint with varnish dependent on image and substrate.	Commonly used in commercial printing applications, packaging, greeting card/ social stationery, and labels.
	MG	Very easy releasing foil, perfect for images that are very broad or solid. Ideally suited for overprinting applications (ink that prints on 'top' of the foil) and as a premium high-speed foil. Works with either paper or film and can be run on both high speed rotary and sheet fed presses.	Most coated and uncoated graphic arts paper, films, vinyl.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Rotary: 260°F - 320°F / 130°C - 160°C	Medium to heavy details	Good abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product. Overprint dependent on inks, image and substrate.	Commonly used in commercial printing applications, packaging, greeting card/ social stationery, labels and book binding.
	MIO	Designed to be very acceptable to most inks, which makes it ideal for overprint applications. Works well with rotary and sheet fed applications utilizing paper and films. High temperature resistance and superior abrasion and scratch resistance.	Most coated and uncoated graphic arts paper and label stocks.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Rotary: 260°F - 320°F / 130°C - 160°C	Medium fine to medium broad details	Good abrasion and scratch resistance. Well-suited for overstamping but dependent on image and other foil product. Overprint dependent on inks, image and substrate.	Commonly used in commercial printing applications, packaging, greeting card/ social stationery, labels and PET/OPP films.
	MB	Excellent choice for book binding industry.	Most coated and uncoated graphic arts paper, book binding substrates and ribbons.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Rotary: 260°F - 320°F / 130°C - 160°C	Very easy	Good abrasion and scratch resistance.	Commonly used in commercial printing, book binding, packaging, ribbons and bags.
	MAM	A foil perfect for difficult applications, such as over UV coatings, film laminations, and surfaces with low dyne levels.	Labels (including PL and PET polypropylene), printed papers, packaging, PETG Bottles and other laminates.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Rotary: 260°F - 320°F / 130°C - 160°C	Fine line to medium broad details	Good abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product. Overprint dependent on inks, image and substrate.	Commonly used in commercial printing applications, packaging, labels (PL, PET and PP), and film laminates.
	MNV	One of the most versatile foils on the market. Specifically designed for foil with embossing and combination jobs. Well suited for overprinting applications.	Coated and uncoated paper stocks, satin acetate ribbons, textured substrates, book cloth, parchment, linen and bonded leathers.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Rotary: 260°F - 320°F / 130°C - 160°C	Medium fine to very broad details	Good abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product.	Commonly used in commercial printing applications, packaging, bookbinding, ribbons and bags.
	MPP	Well-suited for coated substrates where air entrapment/gassing are an issue. Clean cutting and stamps well over inks and varnishes.	All label stocks, laminations, coated and uncoated papers, and some plastics.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Rotary: 260°F - 320°F / 130°C - 160°C	Medium fine to medium broad details	Good abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product.	Commonly used in commercial printing applications, packaging, greeting card/ social stationery, and labels.
	MBK	Specially formulated for rotary press / label applications with high-speed and consistency needs. Performs well with most UV and silk screen inks. Extra bright and clean cutting performance.	All label stocks, coated and uncoated papers, acetate, styrene and PVC.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Rotary: 260°F - 320°F / 130°C - 160°C	Fine line to medium details	Good abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product. Overprint dependent on inks, image and substrate.	Commonly used in commercial printing applications, packaging, greeting card/ social stationery, and labels.
	MOR	Specifically developed and formulated for rotary applications that need a very high speed release. Ideally suited for overprinting applications as a premium high-speed foil. Readily stocked in a range of bright silver and golds, matte silver and golds.	Coated and uncoated paper stocks.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Rotary: 260°F - 320°F / 130°C - 160°C	Medium fine to medium broad	Good abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product. Overprint dependent on inks, image and substrate.	Commonly used in commercial printing applications, packaging, greeting card/ social stationery, labels and PET/OPP films.

Product Line	Release	Workability Brief	Substrate	Temperature	Definition / Coverage	Product Performance	Industries/ Applications
Hot Stamping Metallic Foils	MEG	Suitable for edge gilding applications with good coverage.	Edge of books, notebooks, bibles, dictionaries, journals.	Edge Gilding Press: 230°F - 280°F / 105°C - 135°C	Broad details	Good abrasion and scratch resistance.	Commonly used on books, stationery, business cards, journals, and planners.
	MWP	For both platen and rotary press applications. Good general purpose foil for stamping on top of inks and coatings. Extra bright and clean cutting performance.	Label stocks, coated and uncoated graphic arts paper.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Rotary: 260°F - 320°F / 130°C - 160°C	Medium fine to medium broad	Good abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product. Overprint dependent on inks, image and substrate.	Commonly used in commercial printing applications, packaging, greeting card/ social stationery, labels and PP/PE films.
	SOF	Developed for scratch-off foil applications.	Recommended for smooth plain paper, coated paper, varnished paper or board.	Vertical and Clam Shell: 212°F - 265°F / 100°C - 130°C (To achieve optimum scratch-off capability, it's recommended to use the lowest die face temperature that delivers acceptable coverage)	Easy release	Designed to be removed with a fingernail or edge of a coin.	Used in the gaming industry, promotions and coupons.
Hot Stamping Pigment Foils	PM	Pigment matte foil product that provides reliable performance and opacity on a range of paper substrates.	Most coated and uncoated graphic arts stocks, ribbons.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Rotary: 260°F - 320°F / 130°C - 160°C	Medium to heavy	Good abrasion resistance.	Commonly used in commercial printing applications, coding, ribbons and packaging.
	PG	Pigment gloss foil product that provides reliable performance and opacity on a range of paper substrates.	Most coated and uncoated graphic arts stocks, ribbons.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Rotary: 260°F - 320°F / 130°C - 160°C	Medium fine to medium broad	Good abrasion resistance.	Commonly used in commercial printing applications, coding, ribbons, packaging and rigid plastics.
Hot Stamping Clear Holographic Foil	CHX	Clear holographic foil, available in a variety of patterns. It provides reliable performance on a wide-range of paper stock and is excellent for enhancing or 'securing' printed images.	Most coated and uncoated graphic arts paper, vinyl and rigid plastics application.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Rotary: 260°F - 320°F / 130°C - 160°C	Fine to medium	Good abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product. Overprint with varnish dependent on image and substrate.	Commonly used in commercial printing applications, packaging, greeting card/ social stationery, and rigid plastics.
Hot Stamping Holographic Foils	HX	Holographic foil with fantastic release for general purpose foiling and decorating on a variety of substrates. Brilliant, prismatic colors available in a variety of patterns to help achieve eye-catching effects.	Most coated and uncoated graphic arts paper, vinyl and rigid plastics application.	Platen and Clam Shell: 212°F - 266°F / 100°C - 130°C Cylinder: 266°F - 320°F / 130°C - 160°C Rotary: 338°F - 410°F / 170°C - 210°C /	Medium fine to medium broad	Good abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product. Overprint dependent on inks, image and substrate.	Commonly used in commercial printing applications, packaging, greeting card/ social stationery and plastics.
	HR	Holographic foil with fantastic high-speed release for rotary foiling and decorating on a variety of substrates. Brilliant, prismatic colors available in a variety of patterns to help achieve eye-catching effects.	Most coated and uncoated graphic arts paper, vinyl and rigid plastics application.	Vertical and Clam Shell: 212°F - 266°F / 100°C - 130°C Cylinder: 266°F - 320°F / 130°C - 160°C Rotary: 338°F - 410°F / 170°C - 210°C	Fine to medium	Good abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product. Overprint dependent on inks, image and substrate.	Commonly used in commercial printing, rotary, greeting cards, packaging, PET/OPP laminated papers
	HOR	Holographic foil with fantastic high-speed release for rotary foiling and decorating on a variety of substrates. Excellent for overprinting.	Most coated and uncoated graphic arts papers.	Vertical and Clam Shell: 212°F - 266°F / 100°C - 130°C Cylinder: 266°F - 320°F / 130°C - 160°C Rotary: 338°F - 410°F / 170°C - 210°C	Medium fine to medium broad	Good abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product. Overprint dependent on inks, image and substrate.	Commonly used in commercial printing applications, packaging, greeting card/ social stationery, and labels.
	HXC	Holographic foil with special security enhancement features. Offers a great release for general purpose foiling and decorating on a variety of substrates. Offered in different patterns in different shades offering a unique eye-catching effect while enhancing security.	Most coated and uncoated graphic arts paper, vinyl and rigid plastics application.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Rotary: 260°F - 320°F / 130°C - 160°C	Medium to fine	Good abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product.	Commonly used in commercial printing applications, packaging, greeting card/ social stationery, and labels.
Hot Stamping Pearl Foil	PX	Pearlescent foil — This product provides a consistent performance for numerous applications typically associated with a translucent, pearlized effect.	Most coated and uncoated graphic arts paper, vinyl and rigid plastics application.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Rotary: 260°F - 320°F / 130°C - 160°C	Fine to medium	Good abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product.	Commonly used in commercial printing applications, packaging, greeting card/ social stationery.
Hot Stamping Clear Gloss Foil	CX	Clear gloss foil designed to provide consistent performance with superior workability, this foil simulates a 'spot UV' or 'spot gloss varnish' to enhance print.	Most coated and uncoated graphic arts paper, vinyl and rigid plastics application.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Rotary: 260°F - 320°F / 130°C - 160°C	Fine line to medium broad	Good abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product.	Commonly used in commercial printing applications, packaging, greeting card/ social stationery, plastics (PETG bottles), labels (PL, PET and PP), and laminates.

Product Line	Release	Workability Brief	Substrate	Temp.	Definition/ Coverage	Product Performance	Industries/ Applications
Hot Stamping Metallics Plastics Foils	MRG	Very versatile foil for all plastics. Excellent for clarified PP and other difficult applications.	Stamps on most plastics. Excellent on polypropylene and clarified polypropylene.	400–525°F / 204–274°C	Fine to medium	Excellent adhesion, abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product.	Commonly used in cosmetics and general plastics.
	MRGV	Very versatile foil for all plastics. Excellent for clarified PP and other difficult applications.	Stamps on most plastics; excellent on polypropylene and other difficult plastics.	400–525°F / 204–274°C	Fine to medium	Excellent adhesion, abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product.	Commonly used in cosmetics and general plastics.
	MRY	An ideal foil for UV and epoxy coating applications. Also excellent for high-speed applications with tubes and PET bottles.	Cosmetic and general plastic packaging; excellent for UV and epoxy coatings and frostings. Works well for moderate to high speed applications on tubes and PET bottles.	490–510°F / 254–274°C	Fine to medium	Excellent adhesion, abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product.	Commonly used in cosmetics and general plastics. Excellent for UV and epoxy coatings. Also works well for moderate to high-speed application on tubes and PET bottles.
	MRA	Perfect for hard plastics ABS, SAN, PS, PVC and HDPE bottles.	Stamps on most hard plastics, including HDPE, ABS, PVC, SAN and polystyrene.	400–525°F / 204–274°C	Fine to medium	Good adhesion, abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product.	Commonly used in cosmetics and general plastics.
	MRB	Soft plastics and PP applications and best for banding and mascara bottles.	Stamps on most plastics — hard or soft — including polypropylene and polyethylene.	400–525°F / 204–274°C	Fine to medium	Good adhesion, abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product.	Commonly used in cosmetics and general plastics.
	MSP	Good choice for rigid plastics.	Excellent with gloss/ matte OPP laminates. Also works well with most coated and uncoated graphic arts paper, films, vinyl and rigid plastics application.	240°F / 115°C for graphics and 300°F / 149°C for plastics	Medium to heavy	Good adhesion, abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product.	Commonly used in commercial printing applications, coding, ribbons, packaging and rigid plastics.
Hot Stamping Plastics Pigment Foils	PP	Gloss pigment foil designed to stamp on "olefin" plastics both high and low density.	HD / LD PP and PE plastics.	275–375°F / 135–190°C	Fine to medium	Good adhesion, abrasion and scratch resistance. Overstamp with foil but dependent on image and other foil product.	Commonly used in cosmetics for caps, bottles, jars and labels. Also used in plastics decorating.
	PG	Pigment gloss foil, this product provides reliable performance	Most rigid plastics.	240°F / 115°C	Medium fine to medium broad	Good abrasion resistance.	Commonly used in cosmetics and plastics.
Hot Stamping Plastics Holographic Foil	HP	Suitable for second surface holographic applications.	Most rigid plastics.	240°F / 115°C	Fine to medium	Good abrasion and scratch resistance. Medium to heavy coverage. Overstamp with foil but dependent on image and other foil product.	Cosmetics and plastics decorating.



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Product Line	Release	Workability Brief	Substrate	Light Source	Type of Machine	Product Performance	Industries/Applications
Metallic Cold Foils	MCUV	Overprintable cold foil for use with both conventional and UV inks. Easy and consistent release.	Wide range of coated papers, label stock and film label stocks.	450 watts/ inch UV lamp	Narrow web	Good abrasion and scratch resistance. Adheres to specially formulated adhesive which has been printed on the substrate. Medium to heavy coverage. Overprint dependent on inks, image and substrate.	Commonly used in commercial printing applications, packaging, labels, and shrink film.
	MCOF	Overprintable cold foil for use with both conventional and UV inks. Fine definition with consistent release.	Smooth coated papers.	400 watts/ inch UV lamp	Sheet fed / Offset	Good abrasion and scratch resistance. Adheres to specially formulated adhesive which has been printed on the substrate. Fine to heavy coverage. Overprint dependent on inks, image and substrate.	Commonly used in commercial printing applications, greeting cards, labels, and packaging.
Holographic Cold Foils	HCUV	Holographic cold foil for use with both conventional and UV inks. Very easy, consistent release.	Wide range of coated papers and film label stocks.	600 watts/ inch UV lamp	Narrow web	Good abrasion and scratch resistance. Medium to heavy coverage. Overstamp with foil but dependent on image and other foil product. Overprint dependent on inks, image and substrate.	Commonly used in commercial printing applications, greeting cards, labels, and packaging.
	HCOF	Overprintable cold foil for use with both conventional and UV inks. Fine definition with consistent release.	Smooth coated papers	400 watts/ inch UV lamp	Sheet-fed / Offset	Good abrasion and scratch resistance. Adheres to specially formulated adhesive which has been printed on the substrate. Fine to heavy coverage. Overprint dependent on inks, image and substrate.	Commonly used in commercial printing applications, greeting cards, labels, and packaging.

Product Line	Release	Workability Brief	Substrate	Temperature	Definition / Coverage	Product Performance	Industries/ Applications
Digital Metallic Foils	MD	Formulated to work as a hot process with digital printing by securely bonding the foil to the applied spot varnish.	Most coated stocks, synthetics, plastics, laminated films and aqueous coated surfaces.	266°F - 302°F / 130°C - 150°C	Fine to medium details	Good adhesion, abrasion and scratch resistance.	Commonly used in commercial printing applications, greeting cards, book covers, labels, packaging, and direct mail.
	MSD	Formulated to work with digital printing by securely bonding the foil using a special polymer.	Most coated stocks, offset, digital, plastics, and laminated films.		Fine to small solid area	Good adhesion, abrasion and scratch resistance.	Commonly used in commercial printing applications, greeting cards, book covers, labels, packaging, and direct mail.
	MSF	Formulated to work with a digital laser carbon printer by securely bonding the foil to the toner through heat.	Most coated and uncoated stocks.	266°F - 302°F / 130°C - 150°C	Fine to small solid area	Good abrasion and scratch resistance. Overprint dependent on inks, image and substrate.	Commonly used in commercial printing applications, greeting cards, book covers, labels, packaging, and direct mail.

Product Line	Release	Workability Brief	Substrate	Temperature	Definition/ Coverage	Product Performance	Industries/ Applications
Textile Metallic Foils	MT	Very versatile foil for textiles. Excellent for broad foiling or patterned designs. Very easy peel characteristics. PET film thickness 12 µm (0.012mm).	Textile fabrics. Apply the adhesive to the textile either all-over using a coating machine or to a pattern using a printing machine.	Vertical and Clam Shell: 230°F - 280°F / 110°C - 140°C Textile stamping machine: - 320°F -365°F / 160°C - 180°C	Medium to heavy	Clean definition. Good wash resistance. Good abrasion and scratch resistance.	Commonly used in garments, decorative textiles, footwear and other fabric applications.
	MTW	Very versatile foil for textiles. Excellent for broad foiling or patterned designs. Very easy peel characteristics. PET film thickness 16 µm (0.016mm) or 25 µm (0.025mm).	Textile fabrics. Apply the adhesive to the textile either all-over using a coating machine or to a pattern using a printing machine.	Textile stamping machine: - 320°F -365°F / 160°C - 180°C	Medium to heavy	Clean definition. Good wash resistance. Good abrasion and scratch resistance.	Commonly used in garments, decorative textiles, footwear, banners, and other fabric applications.

Always adding more locations to service your foil needs.

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