

THERM-O-TYPE®

HSFF (High Speed Foil Fusing) Terms:

Air Blast:	Compressed air that is directed to separate the foil from the paper prior to the paper and/or foil advance. Used to improve foil and paper separation and to minimize/eliminate Feathering and Plugging.
Base Sheet:	Used as a foundation for Bottom Makeready Material piece(s).
Bottom Makeready Material:	Used to localize pressure between the paper, foil and Thermal Transfer Plate.
Bridging/Plugging:	Pieces of foil that “bridge” between small gaps in the foil image or “plug” small letters.
Compression Dwell:	Impression pressure adjusted to compress the coating on the Thermal Transfer Plate and the Bottom Makeready Material during impression.
Cover Sheet:	Smooth, uncoated 65 to 80 lb. sheet of paper used to cover the Makeready.
Design:	The text and/or graphics that are printed within the Format.
Feathering:	Small pieces of foil that cling to the edges of the foil image.
Format:	Defines the area(s) where foil will be fused.
Gassing:	Defect in the HSFF image caused by gasses trapped within the toner image area. Most common on large solid image areas, especially on coated papers.
HSFF:	High Speed Foil Fusing. The process of fusing foil to toner image areas that have been printed on paper with a laser printer or copy machine.
HSFF Foil:	Foil formulated to stick to toner. Does not stick to paper.
Initial Impression Pressure:	Initial contact pressure between Thermal Transfer Plate and Makeready set before running the first test sheet.
Makeready:	Combination of Base Sheet with Bottom Makeready Material piece(s) attached.
Paper Distortion:	Noticeable effect on the paper caused by compression between the Thermal Transfer Plate and the Makeready during impression.
Paper, Suitable:	Paper that provides acceptable toner adhesion, with a surface that is “non-reactive” to fusing foil.
Paper, Un-Suitable:	Paper that is not suitable for toner laydown or with poor toner adhesion. Paper with a surface coating/finish or chemistry that will react to the fusing foil. Paper that causes excess gassing problems.
Rich Black:	Applying more than 100% black toner to an image area. In an extreme example: 100% laydown of CMYK.
Scatter:	Toner particles or spots that are outside the desired toner image area.
Spotting:	Fusing foil that is adhering to toner outside the Format.
Template:	Sample sheet that is marked and cut to define the area(s) (Format) where foil will be fused. Used to prepare Base Sheet/Bottom Makeready.
Thermal Transfer Plate:	Used to apply heat to the paper/foil. Attaches to chase.
Toner Adhesion:	How the toner is fused/bonded to the sheet.
Tracking/Forensic Dots:	Please Google: “Machine Identification Code Technology Project” for more details.

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Patent protection for the HSFF process is pending.

For more information, and streaming video clips, visit www.thermotype.com or call 800-237-9630