

Technical Bulletin



Hot Stamp Foils: Pigmented and Metallic

United Silicone provides quality pigmented and metallic foils for hot stamp applications. Hot stamping is a cost effective, dry decorating method that can be used on a variety of materials. Our hot stamp foils are used in applications such as cosmetic, medical, automobile, industrial and consumer goods.

In addition to foils, United Silicone provides hot stamp and heat transfer equipment, tooling and supplies for product decorating and labeling applications. Trust U.S. to be your single source vendor for all your decorating needs.



Hot Stamp Foils:

- Same or Next Day Shipments
- 1" Core Diameters
- 1" Increments x 1000 ft. Rolls (Master Rolls Available)
- In-house Sampling Available
- Single Source Solution
 - ✓ Equipment
 - ✓ Dies
 - ✓ Tooling
 - ✓ Sheets
 - ✓ Foil
 - ✓ Rollers



Color	US P/N	Recommended Substrates
White	USB12A USPP21016 USCC-11206 USMF-11261 USSV-11521	PS, ABS, SAN, HDPE, LDPE, Acrylic PP, PS, ABS, HDPE, LDPE PVC, Polycarb, Nylon, Acrylic HDPE, LDPE, PVC Vinyl, Styrene, Polyolefin
Black	USB10A USPP29000 USCC-19270 USCDF-98 USMF-19059 USPS-19308 USSV-19811	PS, ABS, SAN, HDPE, LDPE, Acrylic PP, PS, ABS, HDPE, LDPE PVC, Polycarb, Nylon, Acrylic PP, UV Cured Stock HDPE, LDPE, PVC PP, Nylon, ABS Vinyl, Styrene, Polyolefin
Matte Gold	USPG325-20	PP, PS, ABS, HDPE, LDPE, Acrylic
Glossy Gold	USPG225-19Q	PP, PS, ABS, HDPE, LDPE, Acrylic
Matte Silver	USPG145-19	PP, PS, ABS, HDPE, LDPE, Acrylic
Glossy Silver	USPG105-19Q	PP, PS, ABS, HDPE, LDPE, Acrylic

ITW United Silicone

DESIGNERS AND MANUFACTURERS OF HOT STAMP AND HEAT TRANSFER DECORATING SYSTEMS AND SUPPLIES

Vertical, Roll-on and Peripheral Machines

Automated Systems • Close Tolerance Machines • In-Mold Feed Systems
Metal Dies • Custom Tooling • Silicone Rubber Sheets, Dies and Rollers
Contract Manufacturing • R & D • Custom Engineering & Design

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Hot Stamp / Heat Transfer Equipment, Tooling & Supplies



United Silicone

Total Solution Provider For All Your Product Decorating Needs!

Silicone Rubber Sheets:

- Thermally Conductive
- FDA-Grade & 3A Certified Materials
- Precision Ground for Flatness
- Excellent Silicone-to-Metal Bond
- Smooth & Textured Surfaces
- Bonded & Unbonded Available
- Heat Tolerant to 600°F
- Various Formulations
- Standard Sizes 12" x 24"
12" x 36"
24" x 24"
24" x 36"

Thickness:

- 1/64" - 1"
- Standard up to 1/8"
- Custom Thickness
Available Upon Request

Hardness:

- Measured Using a Shore A Scale
- 40-90 Durometer
- Dual Durometer Available

Silicone Rubber Dies:

- Flat
- Contoured
- Photo Engraved
- Machine Engraved

Formulation:

- Supersil™ (Red): General purpose
- Ultrasil™ (Red): High Heat Endurance
- Thermosil™ (Brown):
High Thermal Conductivity

Increased Productivity and Reduced Cost

- Consistent Die-to-Die Artwork Placement
- Precision Machined Holes
- Quick Change Formats

Die Sizes Available:

- 2" x 4" with Mounting Holes
- 2 3/8" x 3 1/4" with Mounting Holes
- 4" x 5" with Mounting Holes
- Custom Die Sizes and Holes Available
Per Your Drawing or Sketch

Magnesium Dies:

Photo-etched

- Ideal for Low Volume Production
- Flat Surfaces
- Same Day Turnaround

Character Height

- .035" • .100"
- .065" • .120"
- .090" • .150"

Material Thickness

- 16 Gauge (.064")
- 11 Point (.153")
- 1/4" Material (.250")
- 24" x 36" Maximum Die Size

Brass Dies:

Machine Engraved

- Ideal for High Volume Production
- Flat & Contoured Surfaces

Character Height

- .060" Relief, Standard
- Additional Heights Available

Material Thickness

- 1/4" Material (.250")
- 24" x 30" Maximum Die Size

Silicone Rubber Rollers:

- Expedited Lead Times
- Resistant to Compression Stress
- Seamless Finish
- FDA-Grade & 3A Certified
- Excellent Silicone-to-Metal Bond
- Thermally Conductive
- Heat Tolerant to 600°F
- Various Formulations
- 40-90 Durometer (Shore A)
- Flat, Contoured, or Stepped
- Face Lengths up to 120"
- Finished OD to 20"

Tooling:

- Precision Part Holding Fixtures
- Magnetic Mounting Systems
- Complete Machine
Shop Capabilities

Die Mounting Blocks:

- Standard Sizes Available
for Immediate Delivery
- Custom Sizes Available
- Magnetic Quick-Change

Equipment:

- Standard Machines
- Semi-automated Systems
- Automated Systems
- Custom Equipment

