



UNIVACCO and the SUSTAINABILITY



UNIVACCO for a Better Future

UNIVACCO is a brand you can rely on to deliver outstanding graphic enhancement. As a worldwide leader in hot stamp and cold transfer foils, it is our responsibility to offer a sustainable product offering.





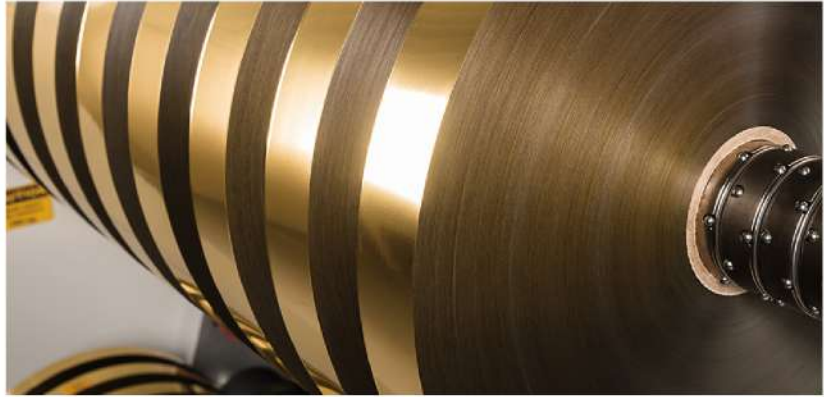
01 RESPECT THE PLANET'S LIMITS

Our answer to global climate change is our launch of an intelligent manufacturing program. This is a comprehensive program which aims to improve our management of natural resource consumption and to reduce carbon emissions.

02 CULTURE DRIVES SUSTAINABILITY

Our company-wide ethical principles of integrity, pragmatism, gratitude, and appreciation guide our development and form the foundation all of our policies, and specifically on sustainability. Thus, UNIVACCO actively commits to the 2030 Sustainable Development Agenda and its Sustainable Development Goals (SDGs) as outlined by the United Nations.

Through our culture, activities, and commitments, our foil not only has the power to brighten packaging designs, but it can also become a beautiful inspiration for our future.



About Univacco



UNIVACCO is a worldwide leader in the manufacturing and distribution of stamping and transfer foils. For more than 30 years, we have devoted our energies and competencies to vacuum metallizing and coating technologies. We offer the best in stamping foil solutions; we provide our expertise to printers and designers worldwide; and we meet the needs for foil embellishment and finish.

Based in Taiwan, our company headquarters functions as an R&D center as well as a global operations and management hub, from which UNIVACCO leads a worldwide service network of factories, subsidiaries, and distribution throughout 70 countries.

Univacco's Expertise

- **Unique Chemical Formulas**
- **Vacuum Metalizing**
- **Coating Technology**

Technological Advantages

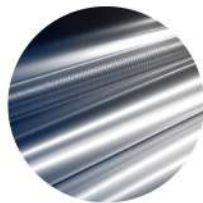
- More than 30 years in graphic foil
- In-house R&D team
- Sophisticated technical services

Comprehensive Range of Foil Products

Give a stunning shine, an eye-catching finish to any project



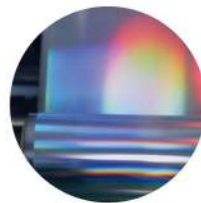
Hot Stamping
Foil



Sheet-fed Offset
Cold Foil



Narrow-web
Cold Foil



Holographic Foil



Digital Foil

Is UNIVACCO's Foil Stamping Recyclable?

Hot stamping and cold transfer printing are both RECYCLABLE!

In a study commissioned by the Foil & Specialty Effects Association (www.fsea.com), it was found that paper after foiling is 100% recyclable. The addition of foil creates no problems in deinking or pulping during the recycling process.

Hot/cold foil is layered, but also incredibly THIN

- In the hot/cold foil structure, aluminum metallization on the transfer layer is extremely thin, and the coating weight is often lighter than conventional inks.
- After foil stamping or transferring, NO plastic residue remains on the packaging.
- Unlike laminating films and metallic paper, transferred foil is easily recycled.



Foil-stamped prints are RECYCLABLE and DEINKABLE

Univacco passed the de-inking certification granted by INGEDE. After stamping with Univacco's foil, papers can easily be deinked during the re-pulping process, after which the paper can be made into new paper or carton materials without any issues.

Foil-stamped prints are COMPOSTABLE and BIODEGRADABLE

Univacco's foil has gained DIN CERTCO certification, including both the European Standard EN 13432 and North America Standard ASTM D6400. The certification confirms that, as an additive, our foil is fully compatible with the composting process. After decomposition, substrates decorated by Univacco stamping foil leave no toxic residue or any other negative effect on the environment.



*Sustainability and attention-grabbing results—you **can** have both.*





Waste Handling and Recycling

To reduce its impact on the environment and loss during production, Univacco has adopted a variety of environmentally positive manufacturing approaches.

At our industrial sites, we have reduced carbon emissions by lowering solvent consumption. Moreover, used solvent is collected and recycled so that it can be re-incorporated into the production process under strict quality and measurement controls.

Finally, through aggressive campaigns, we have greatly reduced our disposable packaging. We have active programs in place with our customers to return/reuse packaging such as pallets, end plates, core plugs and other suppliers.

In Taiwan, Univacco is piloting a PET material recycling approach with audited partners where residual PET from used foil is processed and turned into recycled PET chips. It can also be used as a combustible fuel source.

That way, stamping foil waste remains within the industrial waste cycle.



Recycled PET chips

The chips are converted to new materials or injected into new plastic products.

Combustible fuel pellets

These pellets are used as fuel surrogates, thus conserving and replacing valuable resources.



Certified Safe, Hazard-Free

Univacco's foil is safe and hazard-free for application to packaging. Our foil complies with numerous national and international regulations on packaging, food contact materials, and toy safety. Each stage of production is checked according to respective quality inspection criteria and certifications.



- **Complies with hazard-free regulations**

- RoHS-Restriction of Hazardous Substances, 2011/65/EU, 2015/863/EU (EU)
- REACH Candidate List with SVHCs, 1907/2006/EC (EU)
- California Proposition 65 (US)

- **Complies with packaging regulations**

- Directive on Packaging and Packaging Waste, 94/62/EC (EU)
- US Packaging Legislation CONEG (US)

- **Complies with food safety regulations (food contact materials)**

- Commission Regulation EU No 10/2011 (EU)
- SQTS/Ordinance on Food Contact Materials SR 817.023.21 (Swiss)
- FDA-Food and Drug Administration/FDA 21 CFR 175.300 (USA)

- **Complies with consumer product and toy safety regulations**

- CPSIA (US)
- EN 71-3:2019 (EU)





**We pay attention to
the tiniest detail.**

Producing Sustainably

UNIVACCO guarantees consistent quality, efficient use of capacity, and rationalized systems in all stages of operation, from development, procurement of raw materials, production, and all the way to packaging. UNIVACCO achieved ISO 9001 certification in 2000, and has subsequently and consistently been certified with ISO 14001, ISO 50001, ISO 45001, ISO 14064, and ISO 14067.

We are working on:

- Effectively implementing green production
- Increasing the production of water-based formula products
- Using Rotary Type Regenerative Thermal Oxidizer (RTO) recycling combustion
- Eliminating carbon and VOC emissions
- Reducing energy consumption of manufacturing units



Quality Management
ISO 9001:2015



Environmental Management
ISO 14001:2015



Energy Management System
ISO 50001:2018



Occupational Health
and Safety Assessment Series
ISO 45001:2018



Greenhouse Gas Management
ISO 14064-1:2018



Product Carbon Footprint
ISO 14067:2018

Sustainability Drives Innovation

To meet our commitments, we are constantly looking for ways to reduce virgin plastic usage.

With this idea in mind, we have developed several new series of products, including:

- Foil on a thinner polyester carrier (PET).
- Foil on post-consumer recycled plastic (PCR) carrier.





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