



# GreenLution

## The future capsule system



### **The ecological alternative Capsule - Filling - Recycling**

The recyclable GreenLution Future Capsule System promotes a sustainable circular system from production and use to packaging material recycling. Opt for the circular path to a sustainable future.

**We jointly develop systems to package  
your product sustainably for a secure  
future.**

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## RECY<sup>+</sup>Cap - THE RECYCLABLE CAPSULE

The sustainable capsule for closed-loop recycling

NIR-detectable masterbatches  
for best sorting capability

High barrier top film  
made of monomaterial  
for optimal recycling

Certified PP based on  
organic waste

Excellent barrier  
properties

Certified by institute  
cyclos-HTP as  
recyclable

Sustainably lightweight

Inner capsule filter pars  
made from monomaterial

Compliant with EU  
and FDA food regulations

Perfectly compatible to top  
and bottom film sealing in as-  
sembly stations and filling lines

Multi-layer capsule,  
no secondary packaging  
necessary

### Technical information

- EVOH < 3%, very easy to recycle
- Best aroma protection, approx. 24 months shelf life
- Capsule geometry and colour upon request
- Over 20 years of experience in developing thermoformed capsule solutions

## SANTIS<sup>+</sup>

innovative packaging solutions

### Our strengths

- Modern production facilities
- Comprehensive expertise in plastics and alternative materials
- In-house tool and mould construction
- Creative and innovative tool design
- Cost-efficient, as from small quantities
- Sustainable creating Eco Design



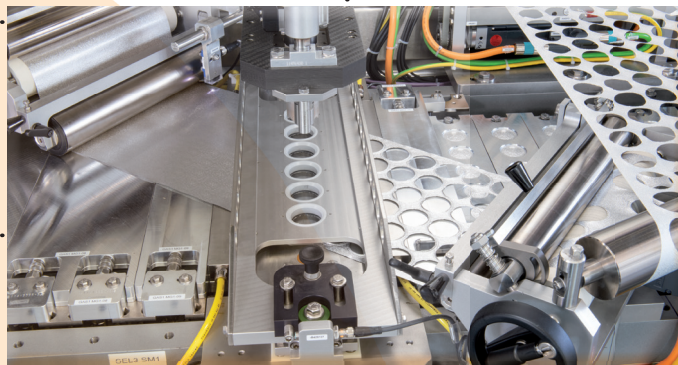
## ENVIRONMENTALLY FRIENDLY DOSING & PACKAGING

For a sustainable production with a minimum of resources

Preventive maintenance programs to reduce wear parts and increase productivity

Improved film utilisation ..... through optimised film handling

Highest dosing accuracy of different coffee types



Lowest space requirements with an efficiency increase to 98% and a production reject rate of < 0.05%

Low energy consumption due to optimized sealing technology with constant sealing quality

Maximum product protection with minimum gas consumption

### Technical information

- Short setup time and fast availability through vertical start-up service concept
- Simple conversion of existing machines based on modular design
- Sustainable, professional disposal of sample and commissioning materials

## OPTIMA

### Our strenghts

- 100 years of experience in dosing and packaging machines
- For over 20 years filling and packaging of portion packs for coffee and tea
- 19 locations worldwide
- A third-generation family business
- Projects for sustainable development



## THE SUSTAINABLE LAMINATE

WICOGREENLINE - Flexible monomaterial laminate

Suitable for coffee and many other products such as powdered milk, team, and chocolate

High oxygen and water vapour barrier

Good MOSH/MOA barrier

High aroma protection

Printable on gravure, flexographic and digital presses



Selective sorting

Aluminium-free

BPA/PVC/PVDC-free

Excellent product protection

Perfect compatibility with capsule and filling system

### Technical information

- Deployment of 2- and 3-ply laminates possible
- Superb shelf life thanks to OPP barrier
- Optimally printable with all common printing methods



Innovative Packaging Solutions

### Our strenghts

- Innovative development partner for high-barrier laminates
- Swiss packaging pioneer since 1914
- Specialist for customer-specific, sustainable packaging solutions
- High-quality product quality
- Sustainable production site



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**Excellent barrier properties**

**Sustainable polypropylene**

**NIR-detectable material**

**Maximum sustainability**

**OPTIMA**

**Conversion of existing plants  
or new machines**

**Maximum dosing accuracy  
and film utilization**

**Highest productivity  
and low waste**

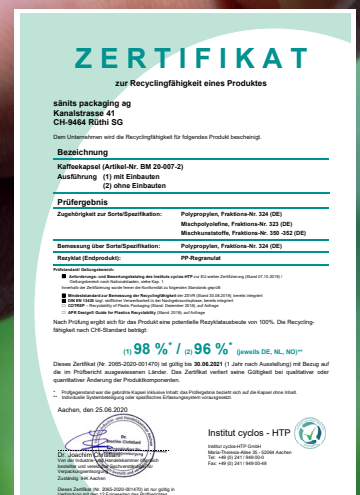
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**Recyclable monomaterial  
laminates**

**Excellent barrier properties**

**Selective sorting possible**

**Developed for PP recycling**



Assessment of recyclability pursuant to bifa and Fraunhofer IVV at Interseroh and Institut cyclos-HTP



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**Sustainability is not an option - it's a responsibility**