

BÖLLHOFF

ECOPACK

Bag packaging for fasteners



ECOPACK – Benefit from our services

Customised bag packaging for fasteners

We reliably package the right fasteners for your application. In this way, we bundle processes, minimise unnecessary distances and achieve a better environmental balance for your applications. As with our entire portfolio, you can rely on our expert advice and certified quality management.

Your benefits with ECOPACK

Efficiency

With our computer-controlled packaging machines, we can automatically package a wide range of different fasteners. Our range of services also includes customised packaging solutions. We deliver reliably and on time. As a manufacturer of fasteners, we have a high level of expertise in production and logistics processes. This enables us to realise significant cost benefits compared to manual assembly methods.

Quality

We ensure 100% content thanks to: Light barrier inspection, final weight inspection using inspection trolleys and random sampling. Our quality management is certified in accordance with IATF 16949.

Customisation

Choose the customised size and shape of the bag. Can be printed with logos, information, drawings and barcodes as well as operating instructions.

Sustainability

ECOPACK offers two environmentally friendly bag variants - made of paper and recycled plastic wrap. Both variants are end-of-life and contribute to the reduction of CO₂ emissions.



ECOPACK – Combining sustainability and functionality

We procure and package the fasteners, thereby optimising your processes and the supply chain. This is not the only way we reduce CO₂ emissions, but also by giving you the choice between our two ECOPACK bag variants. Whether with our paper bag made from renewable wood or the bag made from recycled plastic film.

The result: significantly reduced CO₂ emissions.

Customer benefits with ECOPACK

Simplify processes and reduce costs
Products and packaging from a single source
Supplier reduction
Customised packaging solutions
Expert advice for customised packaging concepts
Reliable and punctual order processing
Certified quality management in accordance with IATF 16949

Application sectors:

Assembly bags & spare parts requirements

- Sanitary and kitchen fittings
- Household appliances
- Switch cabinet construction
- Fire alarm systems
- Vehicle construction
- Gate and fence construction



ECOPACK – Variants

Paper bag

Material:

Bag made from 100% virgin fibre pulp

Certificates:

BfR (German Federal Institute for Risk Assessment) food certificate,
FDA (US Food and Drug Administration) food certificate, ISO 22000,
PTS-RH 021:2012/Aticelca 501:2019 and FSC certified

Benefits:

- High-quality feel
- High flex-crack resistance
- Waterproof
- High degree of whiteness
- No optical brighteners
- Heat-sealable paper made from virgin fiber pulp
- Excellent running properties on packaging and converting lines
- 100% recyclable in the paper waste stream

Product specifications		Value	Unit	Standard
Weight per unit area		65	g/m ²	ISO 536
Thickness		70	m	ISO 534
Whiteness R47	OS	85	%	ISO 2470
Cracking resistance	lengthwise	≥ 70	N/15 mm	ISO 1924-2
	across	≥ 45	N/15 mm	ISO 1924-2
Elongation at break	lengthwise	≥ 2,0	%	ISO 1924-2
	across	≥ 5,0	%	ISO 1924-2
Burst pressure Mullen		≥ 250	kPa	ISO 2758



ECOPACK – Variants

Bags made from recycled material

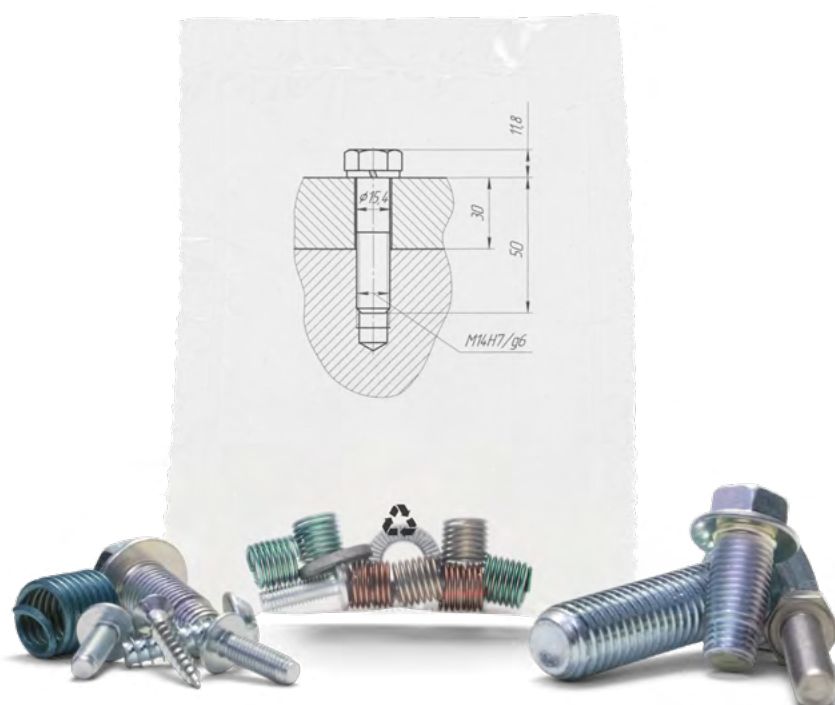
Material:

Made from 90% high-quality post-industrial recycle (PIR)

Benefits:

- 70% CO₂ reduction compared to conventional film
- Food-grade on request
- High-quality material thanks to precise prior checks and documentation
- Can be printed using thermal transfer printing
- Recyclable
- Transparent packaging allows visibility of the bag contents
- Small packaging volume

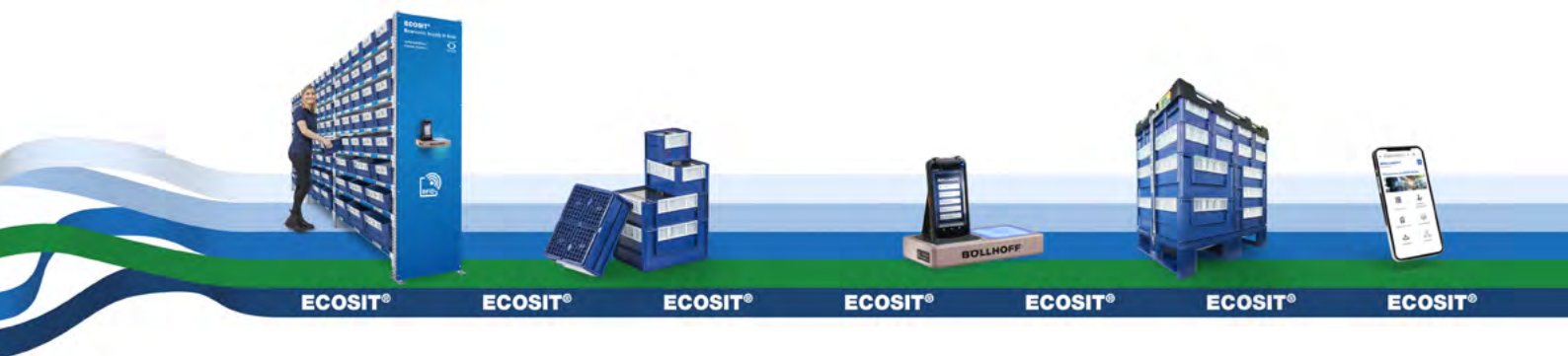
Control characteristic	Value	Unit	Standard
Density	0.917-0.927	g/cm ³	ISO 1183
Melting index 190°C/2.16 kg	0.6-4.1	g/10 min	ISO 1133
Melting point	108-120	°C	ISO 3146
Lubricant level	middle		
Antiblock content	middle		
Tensile strength (MD)	min. 40	N/25 mm	
Lateral tear resistance	min. 40	N/25 mm	



Kanban, but with a system – that is **ECOSIT®**

ECOSIT® stands for ECONomic Supply In Time. With our Kanban solution you optimize your processes, reduce costs, guarantee your security of supply and strengthen your competitive position. Kanban systems offer many advantages: the outsourcing of planning and warehousing as well as complex processes in logistics, the adaptation of production to current needs or the benefits of digitalisation.

We won't promise you anything we can't keep. With us, you benefit from our extensive expertise and many years of practical know-how in the field of fastening technology. Because with Böllhoff, you have a leading international partner at your side, who is a pioneer in the industry, has many years of experience with Kanban systems world-wide and attaches particular importance to developing the Kanban solution together with you



Your advantages with **ECOSIT®**

Our Kanban concept is based on these foundations:

1

Process optimization and cost efficiency

We think in systems to optimize processes and reduce costs. This actively strengthens your competitive position.

2

Customised solutions

Every ECOSIT® system is based on partnership-based cooperation and individual adaptation to your requirements.

3

Holistic logistics solutions and 360° joining technology

ECOSIT® combines holistic logistics solutions with 360° joining technology. This ensures maximum efficiency and transparency throughout the entire logistics chain, from scheduling to goods distribution. Solid connection technology forms the basis for efficiency - indispensable, even for the best Kanban system.

4

Future-proof sustainability

With our sustainable transport system, we use pallets and containers made from recycled plastic instead of wood. This contributes to environmental protection, as the consumption of wood, paper and cardboard is reduced. We have established a reusable system and avoid disposable packaging

ECOTECH – Perfect connections for optimum performance

Cost savings through optimized joining technology

As a provider of 360° joining technology with expertise as a manufacturer and service provider to offer technology-neutral and product-neutral solutions. By this we mean recommending the best possible connection technology regardless of product, manufacturer or brand.

Whether special fasteners from our own production, private label, standard or customised drawing parts - we will find the right solution for your requirements.

Your benefits:

- Economical procurement
- Reliable availability of C-parts
- Process optimisation thanks to the experience of the market leader
- Focussing on your core business

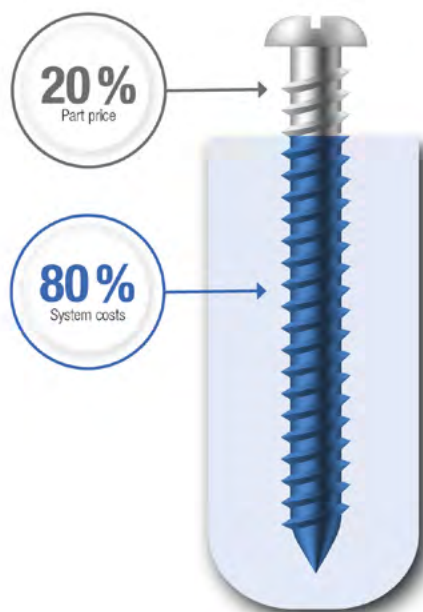
We summarise this performance promise under **ECOTECH** – our unique **engineering consulting service**.

ECOTECH provides in-depth expertise in the field of fastening technology and helps you to reduce your costs sustainably. How do we achieve this?

The technology-open, product-neutral solutions result in a particularly high potential for cost savings in the procurement and application of joining technology for the customer.

By perfecting the joining technology, ECOTECH can optimise processes and thus reduce production costs. This allows existing or new screw connections to be customised, thereby reducing overall costs. Standardisation and reduction increase sustainability in terms of the right material and the right surface.

The main cost drivers in the process are: design, procurement, quality assurance, logistics, warehousing, assembly preparation, final assembly, and capital commitment. In contrast, the part price of the fastener itself is comparatively low at around 20 %.



Our **ECOnomical TECHnical** Engineering Consulting helps to optimise processes - and also costs!

The earlier the ECOTECH specialists are involved, the more positive the impact on the entire value chain.

Benefits:

- We determine the best possible optimisation options for your processes
- We can noticeably reduce your production costs
- We conduct our projects using agile and needs-oriented working methods
- We reduce your time to market
- We act sustainably



Passion for successful joining.

Böllhoff Group

Innovative partner for joining technology with assembly and logistics solutions.

Find your local partner at www.boellhoff.com or contact us at message@boellhoff.com.