



HEALTH & PHARMACEUTICAL APPLICATIONS



DS SMITH TAILORTEMP



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TailorTemp® is an innovative, fibre-based temperature-controlled packaging solution developed by DS Smith to replace expanded polystyrene (EPS) and other hard-to-recycle cold chain packaging used in the pharmaceutical and life sciences sectors. Built from corrugated fibre materials and enabled by advanced predictive modelling technology, TailorTemp delivers the thermal performance required for temperature-sensitive medicines while significantly reducing environmental impact. The solution combines a 100% corrugated, plastic-free and recyclable packaging design with a proprietary digital forecasting tool that predicts thermal performance and enables the creation of customised packaging configurations tailored to individual customer requirements. This data-driven approach ensures medicines, biologics, vaccines and diagnostic products remain within required temperature ranges throughout transport while minimising material use and logistics inefficiencies. Designed and manufactured in Europe using renewable forest fibre resources, TailorTemp demonstrates how bio-based materials can successfully replace fossil-based alternatives in one of the most demanding packaging applications. The solution has already been validated for pharmaceutical cold chain requirements, including performance up to 48 hours under ISTA 7D summer testing profiles and up to 72 hours in controlled conditions. Beyond product protection, TailorTemp contributes to circularity and climate goals. Internal lifecycle assessment work has indicated an estimated reduction of more than

42% in CO₂e emissions compared with conventional EPS-based solutions, while providing a packaging format that is readily recyclable through existing paper recycling streams. The design also improves transport and storage efficiency through flat-packed supply and optimisation of package dimensions, reducing logistics-related emissions and costs.

Key Benefits

- Made from renewable forest fibre-based corrugated materials.
- 100% recyclable and plastic-free packaging solution.
- Replaces conventional EPS cold-chain packaging.
- Estimated >42% reduction in CO₂e emissions versus EPS alternatives.
- Custom-designed through predictive digital technology.
- Validated for pharmaceutical temperature-controlled logistics.
- Supports circular economy and European climate goals.

