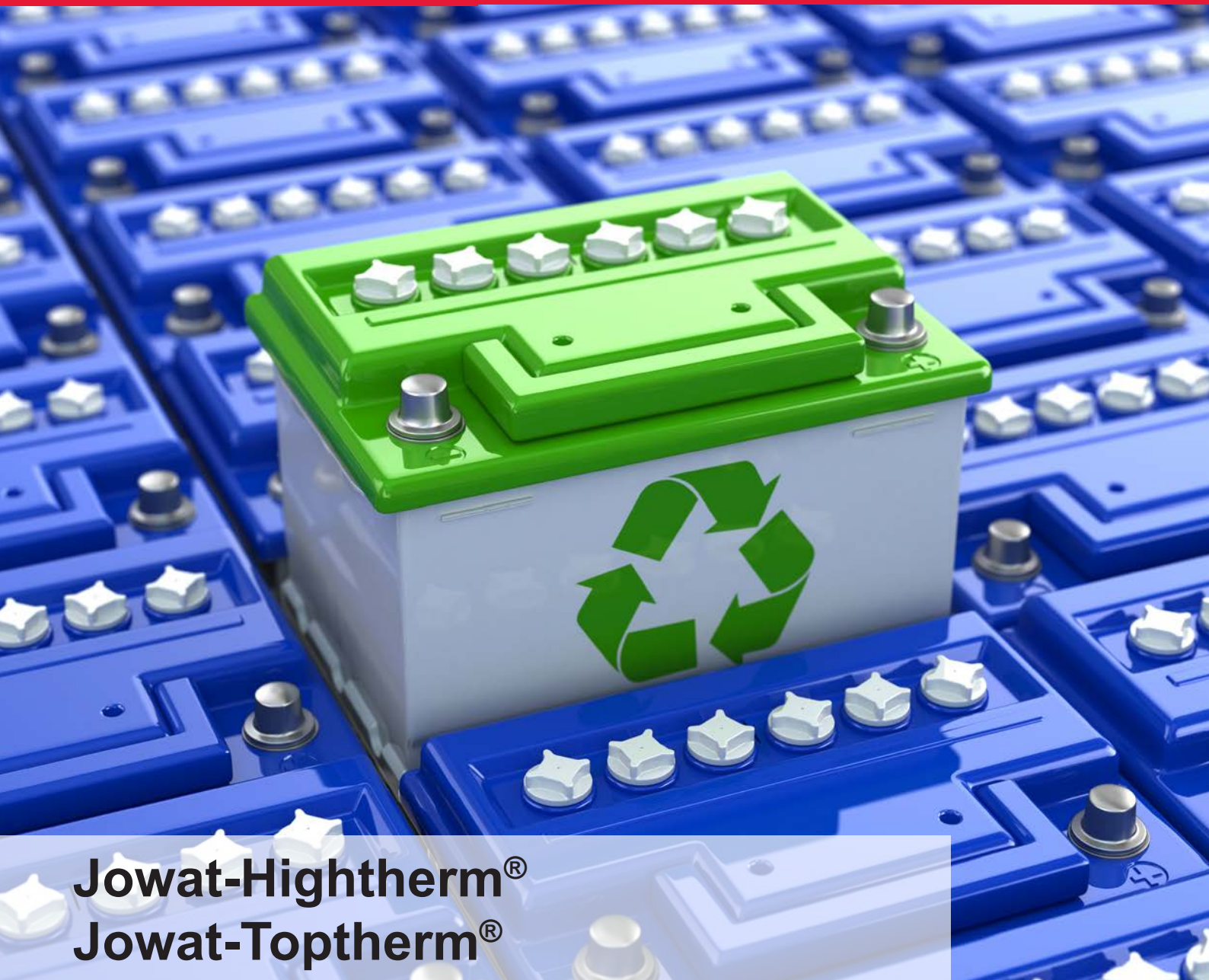


Battery assembly

- PO hot melts for fixing battery elements in plastic cases
- Very high resistance to acids
- Fast downline processing and short process cycles due to fast build-up of cohesion



Jowat-Hightherm®
Jowat-Toptherm®

Jowat-Hightherm® and Jowat-Toptherm® for battery assembly



Adhesives used in the manufacture of automotive batteries have to meet very complex requirements. They must provide a long open time, a fast build-up of cohesion (=handling strength) and very high resistance to acids.

Thermoplastic PO hot melts are used more and more often in the manufacture of automotive batteries. Compared to the two component epoxy adhesives which are also used in this application, thermoplastic PO hot melts provide several major benefits, such as one component processing, higher acid resistance, and good adhesion to the PP case of the batteries. One component processing considerably reduces production downtimes due to maintenance and cleaning or to failures, and facilitates more reliable processes.

The PO hot melts **Jowat-Hightherm® 264.00** and the new high-performance product **Jowat-Toptherm® 264.70** have been developed especially for the manufacture of automotive batteries. These adhesives are characterised by good flow properties due to low viscosity. In addition, **Jowat-Hightherm® 264.00** provides a broad range of adhesion to PP battery cases and PP separators. **Jowat-Toptherm® 264.70** has been adapted optimally to fully automated processes and facilitates short process cycles due to its long open time and fast build-up of cohesion. High resistance to mechanical stress makes these PO hot melts ready to completely replace the two-component epoxy systems.

Overview PO hot melts / 2-comp. epoxy

	264.00	264.70	2-comp. epoxy
Acid resistance	+++	+++	++
1-comp. processing	+++	+++	-
Single origin for recycling (PP case – PP hot melt)	+++	+++	-
Mechanical Strength	++	+++	+++
Density (g/cm ³)	0,87	0,90	ca. 1,1
Adhesion to PP	+++	+	-

Jowat-Hightherm® 264.00

PO hot melt for fixing battery elements in plastic cases

Polymer basis	polyolefin
Viscosity at 180 °C	approx. 3,400 mPas
Processing temperature	170 - 190 °C
Open time (measured on a 2 mm bead)	approx. 25 seconds
Density	approx. 0.87 g/cm ³
Colour	white



Jowat-Toptherm® 264.70

PO hot melt for fixing battery elements in plastic cases

Polymer basis	polyolefin
Viscosity at 180 °C	approx. 8,900 mPas
Processing temperature	170 - 190 °C
Open time (measured on a 2 mm bead)	approx. 90 seconds
Density	approx. 0.90 g/cm ³
Colour	colourless transparent



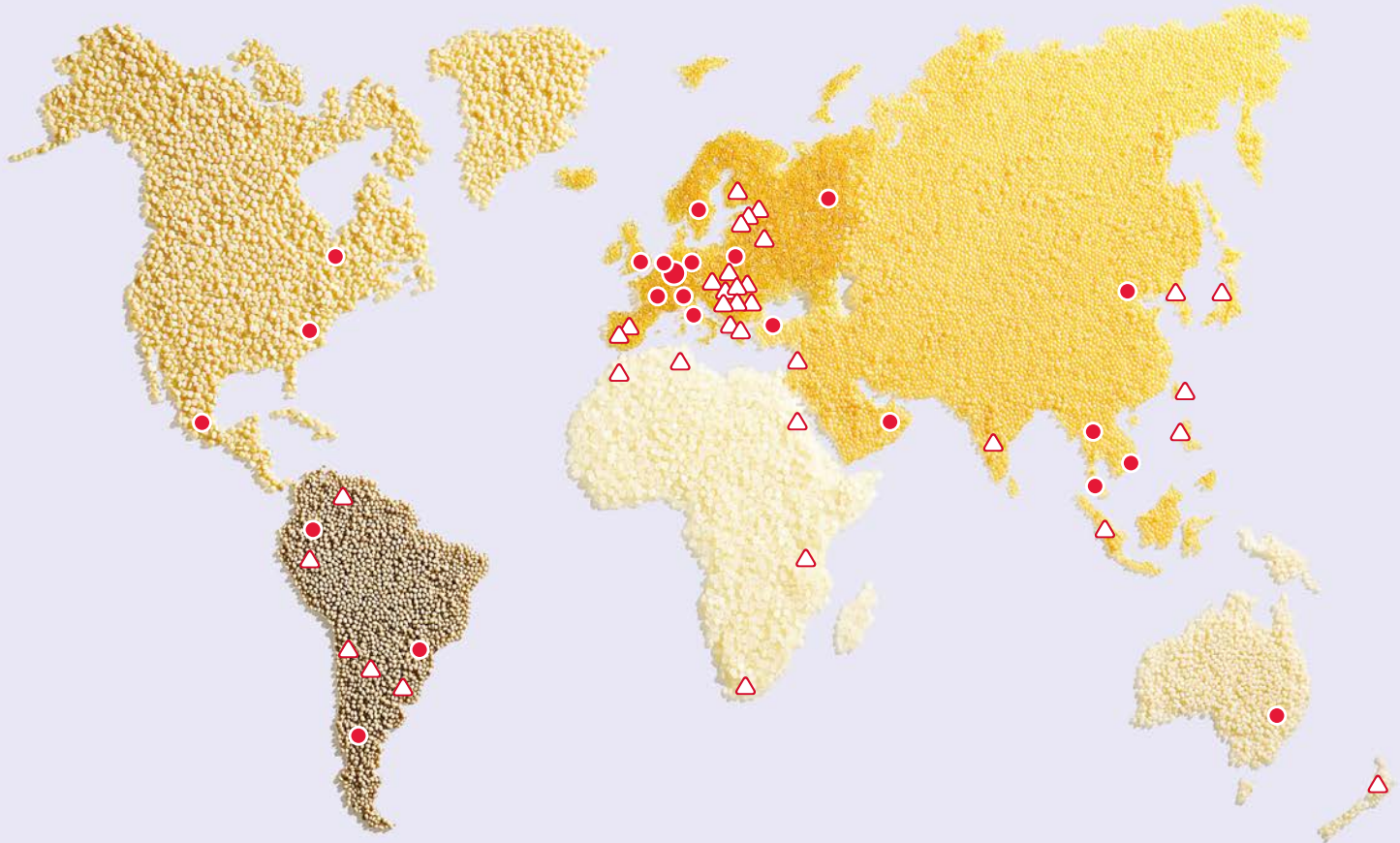
Advantages

- ✓ Long open time and fast cohesion build-up
→ fast downtime processing possible
- ✓ Very high resistance to acids
- ✓ Single origin for recycling
(PP battery case – PO hot melt)
- ✓ Good adhesion to PP battery cases and PP separators
- ✓ 1-component processing
→ higher process reliability
→ fewer interruptions
→ less maintenance and cleaning



Jowat | Ihr Partner in Sachen Kleben

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Jowat – Kleben erster Klasse
Jowat – first class bonding

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