**Portfolio Information** 

### Adhesive Portfolio for the Food and Consumer Goods Industry





Our Word is Our Bond



#### Food and Consumer Goods Industry

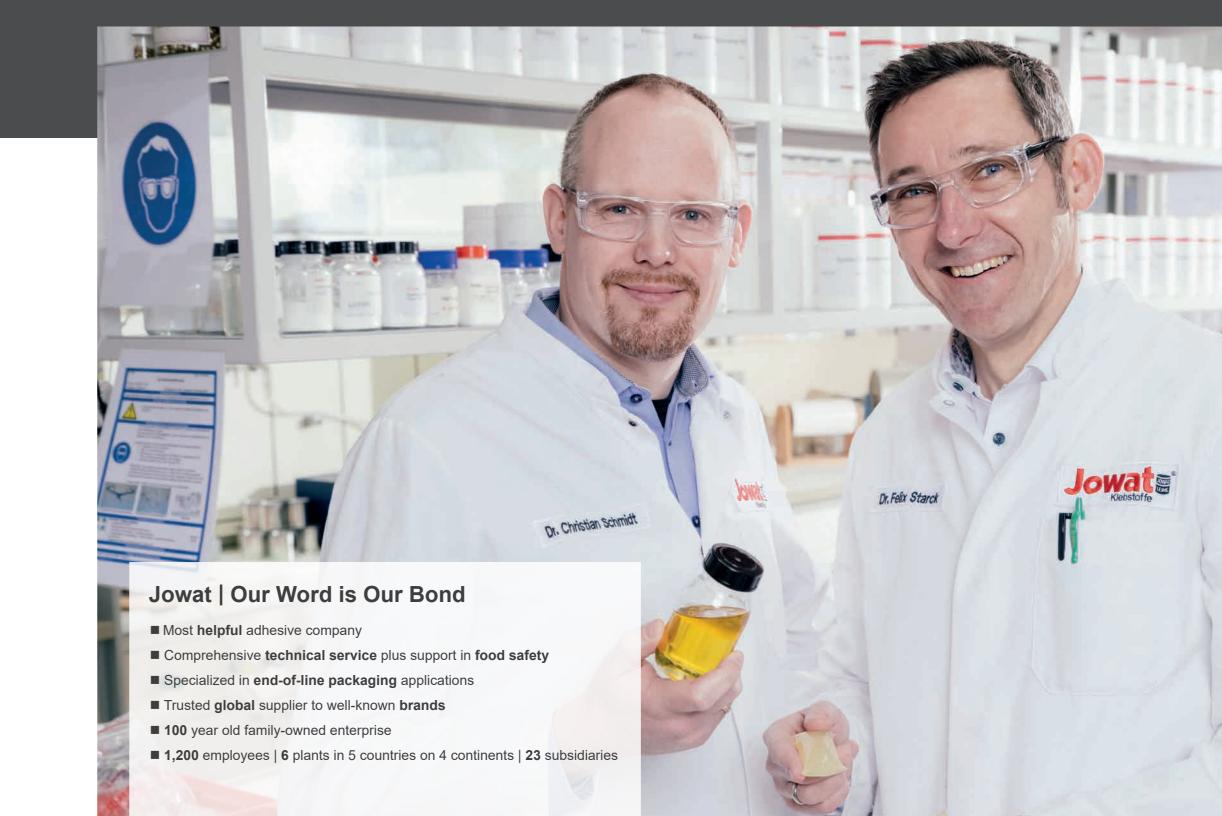
## Leading-edge Adhesive Technology for the Food, Beverage and Consumer Goods Industries

Be it primary or secondary packaging, from paper wraps to cartons, trays and cases, beverage cartons, labels or pallet securing – the requirements for packaging processes are rising rapidly. Clean, energy-efficient and sustainable solutions are increasingly demanded in the industry – including in the development and application of adhesives.

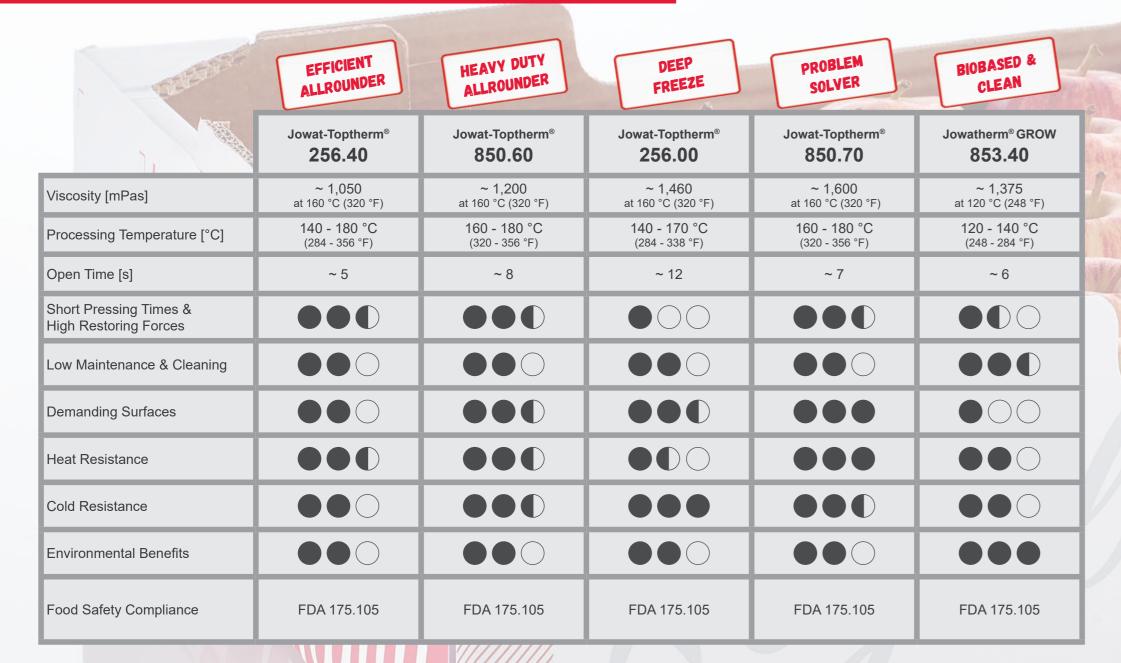
Modern **Jowat** adhesives play a major role in facilitating highly efficient processes as expected by processors. **Jowat** adhesives have been established for many years in the different packaging processes and are highly valued by customers due to major economic benefits, such as reduced application amounts, minimized maintenance and less down times. **Jowat-Toptherm**® and **Jowatherm**® adhesives show an excellent performance in very demanding processes mastering fastest line speeds, extreme temperatures or difficult surfaces.

About half of all packaging manufactured worldwide comes into contact with food. Food safety has therefore always been a major focus of Jowat – from using suitable raw materials, meeting strict guidelines, as well as supporting our customers to ensure food safety compliance. Jowat understands the challenges in the industry and provides the expertise necessary to meet the high requirements.

No matter what the requirements are in your packaging process, the modern adhesive products from **Jowat** provide a suitable solution for your application. Our permanent focus is to facilitate optimised manufacturing conditions and to meet the customer expectations in the best possible way.



#### **Bonding of Trays, Cartons and Cases**



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	BASIC ALLROUNDER	CLEAN RUNNER	ENERGY EFFICIENT	FAST & HOT	AGRICULTURAL TRAYS
	Jowatherm® 259.20	Jowatherm® 857.40	Jowatherm® 858.40	Jowatherm® 8 <b>56.70</b>	Jowatherm® <b>856.40</b>
Viscosity [mPas]	~ 1,450 at 160 °C (320 °F)	~ 1,700 at 160 °C (320 °F)	~ 1,375 at 120 °C (248 °F)	~ 1,750 at 160 °C (320 °F)	<b>~ 1,450</b> at 190 °C (374 °F)
Processing Temperature [°C]	150 - 180 °C (302 - 356 °F)	150 - 180 °C (302 - 356 °F)	120 - 140 °C (248 - 284 °F)	160 - 180 °C (320 - 356 °F)	160 - 190 °C (320 - 374 °F)
Open Time [s]	~ 7	~ 8	~ 6	~ 3	~ 14
Short Pressing Times & High Restoring Forces				•••	••0
Low Maintenance & Cleaning			•••		
Demanding Surfaces	•••		•00		•••
Heat Resistance				•••	
Cold Resistance					•••
Environmental Benefits	•••	•••	000	•00	
Food Safety Compliance	FDA 175.105				

#### **Beverage Carton - Cap Bonding**

		<b>Viscosity</b> [mPas]	Processing Temperature	Application	Heat Resistance	Cold Resistance	Low Main- tenance & Cleaning	Food Safety Compliance	Remarks
	Jowatherm® 250.00	~ 18,500 at 190 °C (374 °F)	180 - 210 °C (356 - 410 °F)	Nozzle Roller	000			EU 10/2011 FDA 175.105 GB 9685	Approved by Tetra Pak and SIG Combibloc
	Jowatherm® 250.80	~ 10,100 at 180 °C (356 °F)	180 - 210 °C (356 - 410 °F)	Nozzle		•••		EU 10/2011 FDA 175.105 GB 9685	Approved by Tetra Pak
ı	Jowatherm® 250.85	~ 2,000 at 180 °C (356 °F)	180 - 200 °C (356 - 392 °F)	Nozzle				EU 10/2011 FDA 175.105 GB 9685	low stringing

#### **Beverage Carton - Straw Attachment**

		Viscosity [mPas]	Processing Temperature	Setting Speed	Heat Resistance	Cold Resistance	Low Main- tenance & Cleaning	Food Safety Compliance	Remarks
	Jowat-Toptherm® 256.05	~ 1,460 at 160 °C (320 °F)	140 - 170 °C (284 - 338 °F)			•••		EU 10/2011 FDA 175.105 GB 9685	Approved by Tetra Pak
I	Jowat-Toptherm® 256.00	~ 1,460 at 160 °C (320 °F)	140 - 170 °C (284 - 338 °F)			•••		EU 10/2011 FDA 175.105	Approved by Tetra Pak
	Jowat-Toptherm® 256.40	~ 1,050 at 160 °C (320 °F)	140 - 180 °C (284 - 356 °F)		000		000	FDA 175.105	



		<b>Viscosity</b> [mPas]	Processing Temperature	Colour	Heat Resistance	Cold Resistance	Low Main- tenance & Cleaning	Food Safety Compliance	Remarks
	Jowatherm® 252.15	~ 950 at 140 °C (284 °F)	130 - 150 °C (266 - 302 °F)	Yellow				FDA 175.105	Plastic Labels
	Jowat-Toptherm® 252.45	~ 850 at 160 °C (320 °F)	140 - 180 °C (284 - 356 °F)	Light Yellow			•••	EU 10/2011 FDA 175.105	Paper & Plastic Labels Low Staining
Ÿ	Jowatherm® 270.75	~ 4,000 at 177 °C (350 °F)	150 - 170 °C (302 - 338 °F)	Light Yellow		000		FDA 175.105	Repositionable



#### **Pallet Stabilization**

The	<b>Viscosity</b> [mPas]	Processing Temperature	Application	Colour	Surface Tack	Low Main- tenance & Cleaning	Supply Form	Remarks
Jowat-Toptherm® 256.00	~ 1,460 at 160 °C (320 °F)	140 - 170 °C (284 - 338 °F)	Bead, stitch, swirl spray	White Translucent		•••	Granules	Dull Surface
Jowat-Toptherm® 252.45	~ 850 at 160 °C (320 °F)	140 - 180 °C (284 - 356 °F)	Bead, stitch, swirl spray	Light Yellow			Pillow	-
Jowatherm® 252.15	~ 900 at 140 °C (284 °F)	130 - 150 °C (266 - 302 °F)	Bead, stitch, swirl spray	Yellow	•••		Pouch, Pillow	-
Jowatherm® 270.30	~ 3300 at 170 °C (338 °F)	150 - 170 °C (302 - 338 °F)	Bead, stitch, swirl spray	Colorless		•••	Pellet	



#### **Jowat - Our Word is Our Bond**

Jowat SE with headquarters in Detmold, Germany is one of the leading suppliers of industrial adhesives. These are mainly used in woodworking and furniture manufacture, in the paper and packaging industry, for graphic arts, in the textile, automotive as well as in the electrical industry. The company was founded in 1919 and has manufacturing sites in Germany in Detmold and Elsteraue, plus three other producing subsidiaries, Jowat Corporation in the USA, Jowat Swiss AG and Jowat Manufacturing in Malaysia. Our North

American manufacturing facility, based in High Point, NC, manufactures a complete spectrum of industrial adhesive. Our extensive warehouse and distribution network ensures that our adhesives are strategically located within a 1-2 day shipping point for every major market in North America. Moreover, in the whole Americas, from Canada to Argentina, other Jowat subsidiaries are being supplied with adhesives made in the US.

# One of Jowat's producing subsidiaries: Jowat Corporation in the USA

#### Have we sparked your interest?

As an active innovation partner, Jowat supports processors in the food and consumer goods industry around the world in meeting the expectations of their customers. As one of the globally leading adhesive specialists with many decades of experience, we have a deep understanding of the different challenges in the packaging processes of fast-moving consumer goods – from ever-shorter cycle times, increasingly demanding surfaces or rising requirements regarding process efficiency and sustainability of the packaging.



We are part of the entire manufacturing chain and provide a comprehensive advisory service and competent know-how: from the constant search for and testing of new, sustainable raw materials to the development of innovative adhesive products in close cooperation with subsuppliers and processors within the framework of the technical advisory service, to individual process analyses. For many years, Jowat has played a major role in safeguarding success and protecting investments by delivering adhesive solutions for modern packaging processes to optimise products and processes.

Have we sparked your interest? Contact us! We look forward to working together.

The information given in this leaflet is based on test results from our laboratories as well as on experience gained in the field, and does in no way constitute any guarantee of properties. Due to the wide variety of different applications, substrates, and processing methods that are beyond our control, no liability may be derived from these indications nor from the information provided by our free technical advisory service. Before processing, please request the corresponding data sheet and observe the information in it! Customer trials under everyday conditions, testing for suitability in normal processing conditions, and appropriate fit-for-purpose testing are absolutely necessary. For the specifications and for further information, please refer to the latest technical data sheets.





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