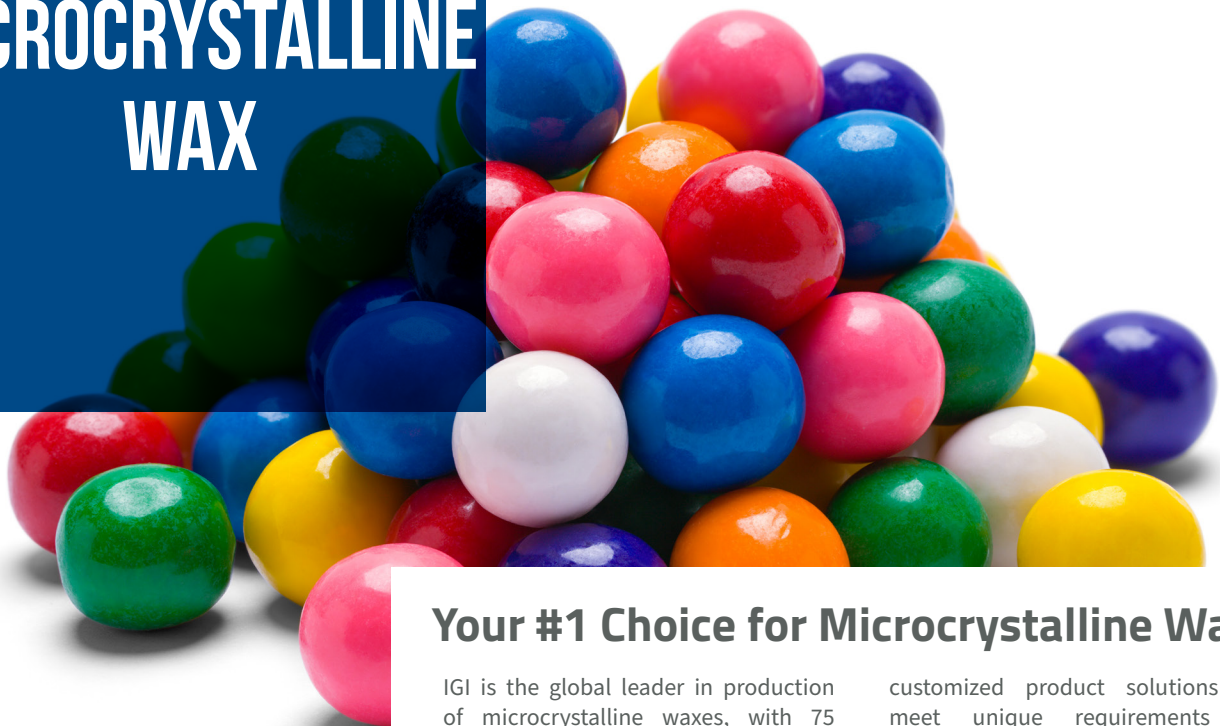




THE INTERNATIONAL GROUP, INC.

MICROSERE®

# MICROCRYSTALLINE WAX



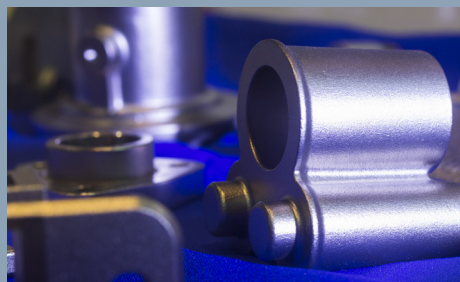
## Your #1 Choice for Microcrystalline Wax

IGI is the global leader in production of microcrystalline waxes, with 75 Years' experience in wax production and blending. Our Microsere® range is synonymous with quality and consistency.

customized product solutions that meet unique requirements and applications.

Our diverse portfolio of Microsere® grades enhance performance in an equally diverse range of end applications, from food products such as chewing gum, to personal care, packaging, candles, lost wax investment casting and a multitude of consumer goods. We develop

IGI is dedicated to the sustainable manufacture and secure supply of high quality wax products, where we are distinguished through backward integration, custom manufacturing capabilities, and our proprietary sourcing strategy. Our goal is to help you achieve the quality, differentiated products required to meet your customer needs.



### KEY FEATURES & BENEFITS

- Best in class product range to meet specific end application and formulator requirements
- Unique low and high melting point product offerings
- Conformance against all global purity standards for food safety and personal care use. FSSC 22000 certified
- Less harsh purification process that preserves the inherent character of microcrystalline wax



- IGI is the world's largest on-purpose wax producer
- We develop customized waxes and specialty polymer blends that meet your unique requirements and applications



- Family owned since 1945
- 650+ employees
- Our industry leading team of wax chemists and wax application experts are here to support you



- IGI refining capacity committed to the long term supply of finished waxes
- 3 production and 6 blend plants
- ISO 9001: 2015, 14001:2015 – FDA, FSSC 22000 & Kosher certified, REACH compliant

MICROSERE®

# MICROCRYSTALLINE WAX

Microcrystalline waxes are tougher, more flexible and generally higher in melting point than paraffin wax.

They have a complex and branched molecular structure, offering excellent binding properties and efficient crystal modification in other base waxes. Softer grades are malleable; tacky and flexible, making them ideal for adhesive and laminating applications. Harder grades are non-brittle, and offer melt point enhancement in conjunction with opacity.

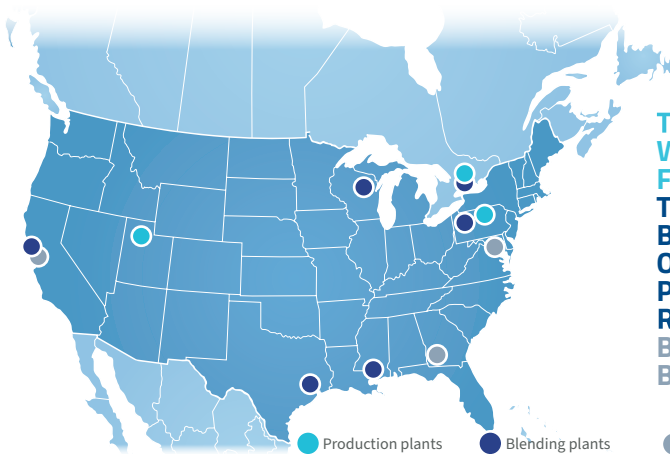
Meeting FDA 172.886 & 172.615, EC Regulation E905c, 1935/2004 and 10/2011, BfR, Food Chemical Codex, GB22160 and COLIPA.

Most grades are available with or without antioxidant, where regulatory requirements dictate.

TYPE	MICROSERE® GRADE	MELTING POINT ASTM D127	HARDNESS @ 77°F / 25°C ASTM D1321	COLOR ASTM D1500	APPLICATIONS
Type 1 - Laminating	5788A	125-145°F / 52-63°C <sup>1</sup>	25 - 45 dmm	< 0.5	Adhesives Candles Cosmetics Explosives Packaging
	5715A	165-177°F / 74-81°C	25 - 35 dmm	> +16 (Saybolt)	
	5799A	165-177°F / 74-81°C	20 - 30 dmm	< 1.5	
Type 2 - Coating	5801A	177-188°F / 80-87°C	9 - 16 dmm	< 0.5	Adhesives Casting Chewing Gum Inks Packaging Plastics Rubber
	5806A	175-188°F / 79-87°C	15 - 22 dmm	< 2.5	
	5871A	175-188°F / 79-87°C	15 - 22 dmm	< 0.5	
	5890A	175-188°F / 79-87°C	15 - 22 dmm	> 16 (Saybolt)	
Type 3 - Hardening	5999A	192-200°F / 89-93°C	< 10 dmm	< 1.5	Adhesives Casting Chewing Gum Inks Specialty
	5909A	192-200°F / 89-93°C	< 10 dmm	< 0.5	
	5910A	192-204°F / 89-96°C	< 10 dmm	> +16 (Saybolt)	

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Note 1 = Congealing point, ASTM D937



Toronto, ON  
Woods Cross, UT  
Farmers Valley, PA  
Titusville, PA  
Baytown, TX  
Oshkosh, WI  
Picayune, MS  
Richmond, CA  
Bainbridge, GA  
Baltimore, MD

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