

## WAXES

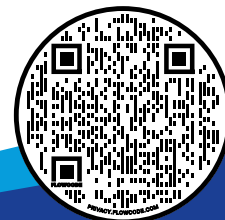
### FORMULATING FOR PERFORMANCE

#### BUILT ON TRANSPARENT PARTNERSHIPS & EXPERTISE

- Customized formulations across multiple industries with consistency in the performance of large and small batch multi-component blends
- Start to Finish: Vertical integration from production at the refinery to blending and packaging for unique application requirements
- Extensive experience in the production and processing of paraffin/soy candle formulations

Our refined waxes have application in most areas of wax consumption:

- |                       |                             |                                 |
|-----------------------|-----------------------------|---------------------------------|
| ■ Adhesives           | ■ Flexible Packaging        | ■ PVC & Plastics                |
| ■ Building Materials  | ■ Food                      | ■ Rust Inhibitors/Undercoatings |
| ■ Corrugated          | ■ Investment Casting        | ■ Tire & Rubber                 |
| ■ Crayons             | ■ Paints & Coatings         | ■ Specialty Products            |
| ■ Candles & Wax Melts | ■ Personal Care & Cosmetics |                                 |
| ■ Emulsifiable Waxes  | ■ Printing Inks             |                                 |



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Calumet provides waxes via bulk liquid form in tank car, tank truck and iso-containers as well as solid form in pastilles or slabs ranging in volume from one pallet to full truck loads.

## PRODUCT SPECIFICATIONS

	Melt Point °F (°C) ASTM D3954	Oil Content % ASTM D721	Penetration @ 77 °F (needle) ASTM D1321	Color Saybolt ASTM D156	FDA 21 CFR 172.886
<b>FULLY-REFINED PARAFFIN &amp; SCALE WAXES</b>					
SL Wax	117 (47)*	Max 2.0	33	28	YES
SC-5050	124 (51)*	Max 2.0	26	27	YES
FR-5717	135 (57)*	Max 0.5	13	28	YES
FR-6014+	141 (61)*	Max 0.5	14	29	YES
FR-6513	150 (66)*	Max 0.5	15	29	YES
SC-6820	156 (68)	Max 0.75	14	29	YES
SC-7319	162 (72)	Max 0.75	14	28	YES
<b>SLACK &amp; SOFT WAXES</b>					
300 Soft Wax	111 (44)	30	121**	17	NO
SL-5244	124 (51)	9	64	25	NO
TWPB 53300	126 (53)	21	110**	17	NO
TWPB 46117	130 (54)	30	84**	L0.5***	NO
600 Soft Wax	142 (61)	25	86**	13	NO
CW-6160	143 (62)	Max 20	62	8	NO
CW-65165	147 (64)	21	139	L0.5***	NO
CW-6645	148 (64)	Max 20	48	10	NO
<b>MICROCRYSTALLINE WAX &amp; PETROLATUM</b>					
CG Micropet	161 (72)	8	93.2**	6	NO
CW-8025	173 (78)	3	25	10	NO
CW-8030K	174 (79)	3	28	29	YES
CW-190	185 (85)	0.5	14	23	YES
CW-8410	185 (85)	0.5	14	23	NO

\* Melt Point °F (°C) ASTM D-087

\*\* Penetration @ 77 °F ASTM D937 (Cone)

\*\*\* ASTM D1500 Color Scale

Our facility meets ISO 9001:2015 quality standards.



+Certificate for Component/Ingredient of Calumet FR-6014 Paraffin wax by the International Biodegradable Products Institute, Inc. Licensing & Certification Program for Compostable Products. This approval is for a component/ingredient only and cannot be used for claims in finished product.

Calumet's sampling and testing procedures in effect at the time of production will be used for certification testing. Results may be based on tank certification, manufacturing data, periodic testing and/or most recent product restock. Typical values only represent the values one would expect if the property were tested in our laboratories with our test methods on the specified date. Some product properties are not frequently measured, and accordingly typical values are not based on a statistically relevant number of tests. The information in this document relates only to the named product. The user is solely responsible for all determination regarding any use and any process.

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