

## Properties of Natural Waxes

Wax	Source	Iodine value	Saponification Number	Acid value	mp C	Ref. Index	Spec. Gravity	Use
Bayberry wax	<i>Myrica cerifera</i>	2.9-3.9	205-217	3.5	40-49	1.436	0.977-0.995	soapmaking, candles, natural insect repellent
Beeswax	<i>Apis mellifica</i>	6-11	84-103	16-24	63-70	1.440-1.449	0.955-0.966	candles, polishes, adhesives, plasticizer, paint binder (encaustic)
Candelilla wax	<i>Euphorbia antisyphilitica</i> ; <i>Pedilanthus pavinia</i>	14-37	35-86	12-20	67-71	1.456	0.950-0.990	leather dressing, polishes, sealing wax, paper sizing, metal casting
Carnauba wax	<i>Corypha cerifera</i>	7.2-13.5	75-95	0.4-9.7	83-86	1.467-1.472	0.990-0.999	floor waxes, polishes, metal casting, printing inks, carbon paper
Ceresin wax	purified ozocerite				61-78		0.91-0.92	candles, sizing, floor polish, waterproofing; leather dressing.
Chinese insect wax	<i>Coccus ceriferus</i>	1-2	43-93	0.2-1.5 (12-22)	80-83	1.457	0.950-0.970	candles, polishes, sizing, leather dressing
Esparto wax	<i>Stipa tenacissima</i> ; <i>Lygeum spartum</i>	22-23	69.8-79.3	22.7-23.9	67.5-78.1		0.9887	carbon paper and as substitute for carnauba wax
Japan wax	<i>Rhus verniciflua</i> ; <i>Rhus succedanea</i>	4.5-12.6	206.5-237.5	6-209	53		0.97-0.99	candles, floor waxes, crayons, adhesive, metal casting
Microcrystalline wax	Petroleum	0	0	0	60-93	1.441	0.915-0.941	polish producing clear, non-sticky finish.
Montan wax	Lignin and peat	16-20	74-127	30-70	76-130		1.010-1.030	polishes, phonograph records, adhesives, sizing, candles, carbon paper
Ouricury wax	<i>Cocos coronapa</i>	6.9-7.8	61.8-85.8	3.4-21.1	79-85		0.970-1.053	substitute for carnauba wax
Paraffin wax	Petroleum	0	0	0	47-75	1.442-1.448	0.880-0.925	floor wax, waterproofing textiles and paper, leather dressing, rust preventative
Spermaceti	<i>Physeter macrocephalus</i>	3.0-4.4	120-136	2.0-5.2	40-50	1.4330-1.440	0.905-0.945	ointments, candles, soap, surgery, leather dressing
Lanolin (wool wax)	<i>Ovis aries</i>	15-47	80-127	5.6-22.0	36-43	1.478-1.482	0.932-0.946	emollient, leather dressing, rust preventative