

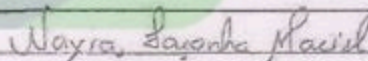
CERTIFICATE OF ANALYSIS

Product : CARNAUBA WAX **Cas No.:** [8015-86-9]
Product description : 10,000 KG OF CARNAUBA WAX T3
Customer's Reference : ORDER NO:

Address

LDT NO.	079T3F19CE	102T3F19CE	METHODS	SPECIFICATIONS	REFERENCES
QUANTITY OF BAGS					
MFG. DATE					
EXPIRY DATE					
TESTS	RESULTS	RESULTS			
01 Moisture	0.22	0.18	AMERWAX	0.50% max	Pontes
02 Saponification Value	90.66	87.67	ASTM D1357-89 (2012)	78 - 95 mg KOH/g	USP 41 p.5651
03 Acid Value	6.01	6.07	ASTM D1386-15	2 - 7 mg KOH/g	USP 41 p.5651
04 Melting Range or Temperature	82.5	82.5	USP 41 <741> Class II p.6497-6499	80 - 86 °C	USP 41 p.5651
05 Insoluble Impurities	0.04	0.04	AMERWAX	0.20 % max	Pontes
06 Volatile Matter at 175°C (Including Moisture)	0.59	0.65	PONTES	1.00 % max	Pontes
07 Ester Value	84.65	81.60	USP 41 <<01> p. 6185	71 - 88 mg KOH/g	FOC 11 th Ed p247
08 Residue on Ignition	0.21	0.21	USP 41 <281> p.6168	0.25 % max	USP 41 p.5651
09 Heavy Metals	< 20	< 20	USP 37 Met.II <231> p.160-161	≤ 20 ppm	USP 37 p.6256-6257
10 Color	7	7	ASTM D1544-04 (2018) Adapted	7 - 10 Gardner Scale	Pontes

Responsible Chemist:



 Nayra Façanha Maciel
 Química
 CRQ Nº 10200071

 آرنا کیمی کستر سپیدار
 شماره ثبت : ۵۵۰۱۲۳


Pontes Indústria de Cera Ltda
 Rua Irineu de Souza, Nº 10 • Bairro: Álvaro Weyne • CEP.: 60337-180
 CNPJ: 11.741.022/0001-29 • CGF: 06.029.422-1 • Fortaleza • Ceará • Brasil
 +55 85 3288.7100 • pontes@pontes.ind.br/www.pontes.ind.br