### GUJARAT PARAFFINS PRIVATE LIMITED INDUSTRIAL WAXES

## JHAJHARIA GROUP

- Family Owned Group
- Established in 1975 in Ahmedabad, India
- Start Up Manufacturing of Industrial Waxes
- Manufacturer of Food, Pharmaceutical Ingredients, Industrial and Biotechnology products
- Markets Product And Services in 80 Countries
- Group Turnover of INR 5.7 Billion

### JHAJHARIA GROUP COMPANIES

- Gujarat Microwax Pvt Limited Microcrystalline Cellulose, Crosscarmellose Sodium and Sodium Starch Glycollate
- Gujarat Paraffins PVT LTD Industrial Waxes, Paraffin Waxes and Microcrystalline Wax
- Gujarat Overseas Inc. Herbal Extracts, Excipients, Oleoresins, and Essential Oils

## GUJARAT PARAFFINS PRIVATE LIMITED

- Pioneers in production of Tyres Waxes in India
- Replaced imported material in JK Tyres in 1977
- 9000 mtons per annum production capacity.
- ISO / IATF Approved



# MANUFACTURING FACILITY

- State of the art manufacturing Plant
- Closed System
- Large warehousing spaces self owned to store raw materials and finished products



# LABORATORY

- In House facilities for all chemicals tests
- In House Gas Chromotography



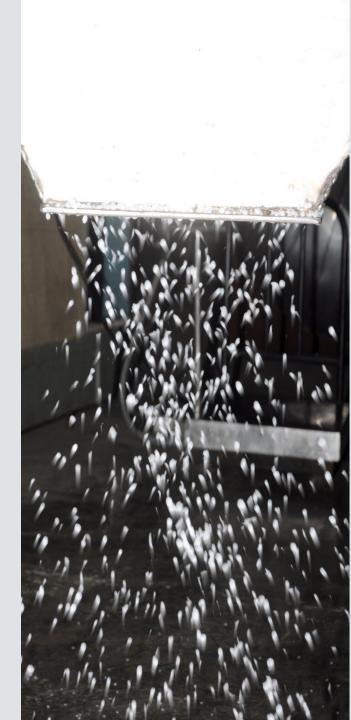
# UTILITITES

 All Utilities Self Generated – Hence less dependence : Steam Boiler, Chiller, Cooling Tower, Water Treatment plant



## PRODUCT

- High Quality Waxes
- As per Carbon distribution required
- Low Oil Content
- Available in Slabs and Flakes
- Eva bag packing also available



## SALES

**Major Customers are Apollo Tyres** JK Tyres **TVS Srichakra Ceat Limited MRF** Tyres Metro Tyres **Ralson India Ltd** Exports to Sri Lanka, USA & Mexico



## CORPORATE SOCIAL RESPONSIBILITY



- Our Group of Companies was by the State of Gujarat given an award for best Cohesive and Strategic CSR.
- We built 1000 toilets in several villages of North Gujarat.
- We sponsored a school in the village of Chandarda, North Gujarat,
- We run a dispensary in the village of Chandarda, North Gujarat.
- Besides the above direct activities we have teamed up with a NGO called Dreams Foundation which identifies people living below the poverty line and helps them create small businesses to ensure sustainable living.

### ADVANTAGES OF GUJARAT PARAFFINS AS A VENDOR

- World Class Quality and Technical Support at a reasonable Cost
- Local Stocks
- Immediate Deliveries and technical service
- Proven track record at several Tyre companies for over 45 years
- Tie up with refineries in Indonesia, Turkey, India, UAE and China for regular supplies of raw material

#### SPECIFICATION

#### **REFINED PARAFFIN WAX - DUWAX II**

Sr.	Parameters	Specifications	Test-Method
1	Appearance	White Pallets	Visual
2	Specific gravity of solid by liquid displacement (typical)	0.915	IP59/82 Balance Method
3	Conjealing Point	60.0°C-63.0°C	ASTMD 938-71
4	Drop Melting Point	62.0°C-68.0°C	ASTMD 127-63
5	Ash Content	0.1%	ASTMD 482-80

#### **REFINED PARAFFIN WAX - DUWAX II**

Parameters	Specifications	Test-Method
Colour	White to Yellow Pallets	Visual
Congealing Point	63.0°C70.0°C	ASTM D 938-71
Viscosity at 100°C	6.57.2 <u>Cst</u>	ASTM D 445-83
Refractive Index at 100°C	1.42551.4320	ASTM D 1747
Ash Content	0.1% Max	ASTM D 482-80
Oil Content	0.1%	ASTM D 721

Sr.	Parameters	Specifications	Test-Method
1	Appearance	White to Yellow Pallets	Visual
2	Congealing Point	63.0 °C - 70.0 °C	ASTMD 938
3	Drop Melting Point	75.0 °C - 82.0 °C	ASTMD 127
4	Viscosity @ 100 °C	6.5 - 7.2 <u>Cst</u>	ASTMD 445
5	Refractive Index @ 100 °C	1.4288 ± 0.0032	ASTMD 1747
6	Ash Content	0.1 % Max	ASTMD 482
7	Oil Content	1.0 % Max	ASTMD 721
8	Centering Point of the Peak	C25 ± 1 C32 ± 1	ASTMD 5442
9	Normal Hydro Carbon		ASTM D5442
	C <sub>20</sub> - C <sub>24</sub>	11-23%	
	C <sub>25</sub> - C <sub>29</sub>	28-44%	
	C <sub>30</sub> - C <sub>34</sub>	25-50%	
	C <sub>35</sub> - C <sub>40</sub>	4-20%	

#### TYRE WAX 114

#### TYRE WAX 222 (Ozone Protecting Wax)

Sr.	Parameters	Specifications	Test-Method
1	Appearance	White to Pale Yellow Pellets	VISUAL
2	Drop Melting Point	68.0oC - 75.0oC	ASTTVI D 127
3	Congealing Point	64.0oC -71.0oC	ASTM D 938
4	Specific Gravity (Typical) al25oc	0.920	IP / 59 Balance Method
5	Refractive Index at 100oc	1.420 - 1.440	ASTM D 1747
6	Ash Content at 750oc for 2 hours	0.2% Max	ASTM D 482
7	n-Paraffin Content	60-73%	ASTM D 5442
	Centering of the Peak	C25± <u>1,C</u> 32±1	
	Total n-Paraffin Content		ASTM D 5442
	C20 -C24	11 - 23%	
	C25 -C29	28 - 40%	
	C30 -C34	25 - 45o/o	
	C35 - C+40	8 - 24o/o	

#### TYRE WAX (333)

Parameters	Specifications	Test-Method
Appearance	Yellow/Brown Pallets	Visual
Congealing Point	58-62 <u>Deg</u> c	ASTM D 938-71
Refractive Index at 100Deg C	1.438 1.442	ASTM D 1747
Viscosity at 99 Deg C	68 MAPS	ASTM D 445

### TYRE WAX (666)

Parameters	Specifications	Test-Method
Congealing Point	63.0 °C - 70.0 °C	ASTM D 938-71
Refractive Index at 100°C	1.426 - 1.430	ASTM D 1747
Specific Gracity @ 25°C	0.900-0.920	IP 59/82 Balance Method
Needle Penetration @ 25°C (100gm)	14.0-19.0	ASTMD 1321
Oil Content	1.0% Max	ASTMD 721
Carbon Number Distribution	Fraction	ASTMD 5442
≤ C24 (n-paraffin) (iso Paraffin) (n + <u>isoparaffin</u> )	0.9-5.5 0.0-0.5 1.0-6.0	
C25-C29 (n-paraffin) (iso Paraffin) (n + isoparaffin)	13.0-19.0 1.0-3.5 14.0-22.5	
C30-C34 (n-paraffin) (iso Paraffin) (n + <u>isoparaffin</u> )	25.5-32.5 9.5-15.5 39.0-47.5	
C35-C39 (n-paraffin) (iso Paraffin) (n + isoparaffin)	9.0-16.5 11.0-16.5 19.0-32.0	
C40-C50 (n-paraffin) (iso Paraffin) (n + <u>isoparaffin</u> )	1.5-7.0 4.0-8.0 6.0-13.0	
>C50 (n-paraffin) (iso Paraffin) (n + <u>isoparaffin</u> )	0.0-1.5 0.0-1.0 0.5-2.5	
(n-paraffin) (Total iso Paraffin)	60.0-70.0 30.0-40.0	

#### TYRE WAX (111)

Parameters	Specifications	Test-Result	Test-Method
Colour	White to Yellow Pallets	White Pallets	Visual
Congealing Point	63.0°C70.0°C	64.0°C	ASTM D 938-71
Viscosity at 100°C	6.5 7.2 <u>Cst</u>	6.9 <u>Cst</u>	ASTM D 445-83
Refractive Index at 100°C	1.4255 1.4320	1.430	ASTM D 1747
Ash Content	0.1% Max	0.02%	ASTM D 482-80
Oil Content	1.0%	0.8%	ASTM D 721

#### TYRE WAX 600

Parameters	Specification	Test Method
Appearance	White to yellowish pallets	Visual
Congealing Point	64.0°c - 69.0°c	ASTMD 938
Specific Gravity (Typical)	0.910 - 0.920	IP 59/82 Balance Method
Refractive Index @ 100°c	1.425 - 1.431	ASTMD 1747
Ash content @ 950°c, 1 hour	0.1 Max	ASTMD 482
Carbon Number Distribution	Fraction	ASTMD 5442
C31	8-12%	
C32	8-12%	
C33	8-12%	
≤C22	Max 2.5%	
≥C43	Max 3.0%	
n-Paraffin content%	75-85%	ASTMD 5442

#### TYRE WAX 126

Parameters	Specification		Test Method
Appearance	White to pale yellow	w pallets	Visual
Congealing Point	70.0'c - 76.0'c		ASTMD 938
Drop tMelting, Point	70.0"c - 82.0'c		ASTMD 127
Refractive Index at 100'c	1.425 - 1 .431		ASTMD 1747
Kinematic Viscosity @ 100"c	7.5 -9.5 <u>cst</u>		ASTMD 445
Ash content @ 850"c,	0.10%		ASTTUD 482
Specific Gravity AT 25 "c	0.91 - 0.92 (Typica	l)	IP 59 Balance Method
Carbon Number Distribution			
≤c24	0-3%		
c25-C29	6-13%		
c30-c34	34 - 48%		
c35-C39	29 - 42%		
c40.c50	10-19 %		ASTMD 5442
>c50	0-2 %		
T-4-1	n-Paraffin	80 - 90 %	
Total	lso-paraffin	10 -20 %	

#### INDRAMIC 800-A (DUWAX X)

Property	Method	Min	Max
Drop melting point, "F ('C)	ASTM D-127	171(77.2)	200(93.3)
Oil Content, wt%	ASTM D-721	-	2.5
Viscosity @ 210'f, eSt	ASTM D-445	9.0	21.0
Penetration @ 77'E_dmm	ASTM D-1321	6	-
Penetration @ 110'F, dmm	ASTM D-1321	-	35
Flash point, 'F ('C)	ASTM D-92	400 (204)	-
Organic insoluble matter, %	MIL-W-20553D Specs	-	0.03
Alkalinity, %	MIL-W-20553D Specs	-	None
Acidity, as acctic acid, %	MIL-W-20553D specs	-	0.01
Exudation @ 71'C, 24 hours, %	MIL-W-20553D specs	-	3.0

## **Gujarat Corporate Office**

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### FACTORY

128-GIDC Estate, Kalol North Gujarat, India

