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Issue - 2



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## RUBBER BUSINESS NEWS

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April - 2011



# AGRO INTERNATIONAL

Manufacturers & Exporters of World-Class EVA Batch Inclusion Bags



### Introduction

One of the most challenging things facing the manufacturing industry today (particularly for manufacturers of items like tyres and other synthetic rubber compounds), is finding ways to decrease costs while maximizing profile and efficiencies. Factories that focus on mixing variety of ingredients to achieve a final product are especially challenged to incorporate new methods that make manufacturing faster and easier.

Agro International was founded in 1995, being a proprietorship concern by 1st generation Woman entrepreneur to manufacture innovative products. To start with Turret Liners being an import substitute then diamond pattern embossed poly and now another innovative solution for low melting batch inclusion bags and labels with its brand name EASY-FLUX. Ours is a manufacturing unit, which makes Easy-Flux, low melting inclusion bags processed from EVA Co-Polymer installed at Mewar Industrial Area, Udaipur. Most of the plant and machinery processed and composition are developed by state of art technology indigenously. Our Unit is certified by ISO 9001-2000. We are extremely thankful to our existing customers like J.K. Tyres, Birla Tyres, and Apollo Tyres For their continuous support and motivation. As well as their valuable suggestions and advice for further technical excellence of our product.

The concept of using EVA Bags for packing of rubber chemicals is not very old, its benefits and saving virtually force all major players in the rubber industry to use the same. Eco Friendly- EVA Bags are melted with rubber compound hence no scrape is generated. In fact, it prevents other chemicals, dust and fume generation in the rubber processing plant. Presently rubber chemical manufacturers like rubber crumb, silica, zinc oxide, Peptizer, antioxidant accelerator, reclaimed rubber, carbon black, filler, wax etc too are supplying their respective products in small packs of EVA as per batch size of their customer. The growth of the company and its turnover increased by 100% annually, which force the company to undertake expansion every year. This was not possible without teamwork and dedicated, Hardworking, motivated group of individuals of agro family. Each one has its own unique contribution for the success of its brand products EASY-FLUX.

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continued page no.17 ....

## Tire Recycling in Ontario Green Ideas In Tyre Recycling To Save Earth And Nature!



What Happens to  
Used Tires in Ontario?

Whether piled up at your local service station, abandoned along a road or neatly tucked into a corner of your garage, used tires are all around Ontario. Some find their way to a recycler who will make new green products such as playground surfaces or patio tiles, but many others end up in landfill, or are sent to be burned for fuel in a cement kiln or power plant. The Ontario Used Tires Program will change all of this for the better.

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## Editorial Message

*Indiarubberdirectory.com, the premier Rubber Portal of India, proudly presents RUBBER BUSINESS NEWS MAGAZINE for the welfare of Rubber Business Community. The sole aim of this magazine is to share the views, market trends, technical papers, New products launches in the market, Technology, Business Opportunities to grow the Rubber Business, and other necessary information to all the readers. The readers can also use the RUBBER BUSINESS NEWS MAGAZINE as a tool to develop business effectively with little investment.*

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## Agro International - Special Focus

### ABOUT PRODUCTS

#### Benefits of Using Batch Inclusion Bags:

- Improves quality and batch to batch uniformity insures 100% of compound ingredients go into the mixer
- When doing in-house weighings, batch inclusion bags eliminate the risk of cross-contamination due to chemical residue in tubs and weighing containers Increases productivity
- Eliminates the need to weigh ingredients in-house through the use of pre-weighed additives
- Eliminates the need to clean out tubs and weighing containers
- Reduces product loss due to spillage and minimizes the accumulation of costly additives in the dust collectors
- Reduces solid waste disposal costs
- Improves cleanliness of the mixing area
- Minimizes worker exposure to hazardous materials

#### Choosing Your Batch Inclusion Packaging:

- Along with the melting point, it is important to consider the following film and bag properties when choosing the appropriate packaging:
  - Physical properties of the film or bags
  - Tensile
  - Elongation
  - Elmendorf Tear
  - Chemical resistance of the film
  - Some chemicals and oils may attack certain types of packaging before the bag's contents are thrown into the mixer
  - Water vapor transmission rates of the film
  - Consider if the contents of the bags are moisture sensitive such as desiccants
  - Heat sealability of the film and bags

#### Cost

- Usually, the lower the melting point, the higher the cost.
- Higher melting bags (>95°C) will usually have stronger physical properties, better chemical resistance, and lower water vapor transmission rates.



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#### Size

- Clearly, the amount of material being put in the bag will be a key factor. However, you should consider how the bag will be used before finalizing its size. For example, if you do not heat seal the bags, you will need extra film at the top to fold over the bag opening to prevent spills or contamination. If you heat seal the bag, a shorter—and therefore less costly—bag can be used.
- Also consider how the bags will be handled. If the bags are lifted and carried through the plant, a thicker bag will be needed. If they are used as tub liners and remain in the tubs until dumped directly into the mixer, a thinner, less costly bag can be used. The bag thickness is typically in a range of 150-350 gauge (50-75 microns).
- Keep in mind that the most cost effective bag choice will be the smallest and thinnest, and have highest melting point required for the job.

#### Easy-Release (Embossed Poly) Specifications

Description	Unit	Specification
Material	-	Mainly PE
Density	gm/cc	0.92 ± 0.01
Film Width	mm	Max. 550 ± 10
Base Thickness	mm	0.04 - 0.15 ± 0.01
	micron	40 - 150 ± 10
Embossed Thickness	mm	0.11 - 0.22 ± 0.03
	micron	110 - 220 ± 30
Wt / Sq.mtr (100 microns)	gms	95 ± 2.0
Embossing design	As per sample	Diamond shaped
Colour	-	As per customer's choice

#### Easy-Release Film

- Agro manufactures Semi Embossed Film used as a liner material in rubber Industry.
- Easy-Release Film is manufactured with 100% virgin Low Density Polyethylene. The raw material is extruded and cast on the embossed roll and cooled
- This process enables the film to retain the emboss on the film even when subjected to high temperature and stretch during calendaring
- Agro produces film of any colour and specification as per the requirement of the customer
- Standards colours are Milky White, French Blue, Red, Yellow and Natural. However anyother colour as per customer's requirement can be supplied subject to a minimum quantity order.
- The minimum base thickness that can be produced is 40 microns and the maximum is 150 microns
- The minimum embossed thickness that can be produced is 110 microns and the maximum is 220 microns.
- The maximum width that can be produced is 550 mm
- The diamond shaped embossing in the film helps in the easy removal of air between the film and the rubber while calendaring resulting in easy and distortion free removal of the film from the rubber.
- The film is used as a liner to the calendared rubber to retain the properties of rubber and also to prevent dust and other foreign matters from sticking to the rubber while calendaring and during storage before taken for further processing
- Semi Embossed Film is used by Tyre manufacturers, Tread and Bonding Gum manufacturers, Conveyor Belt manufacturers and other Rubber Coated Fabric manufacturers.



#### Low Melt Batch Inclusion Bags You Must Know

For companies who rely on precise mixtures of ingredients to make their products, low-melt batch inclusion bags can prove to be a very beneficial addition to their recipes. The term batch inclusion refers to a process by which multiple ingredients are combined in a mixer or mill. Batch inclusion bags are made of thin, high-grade plastic that melts at low temperatures, allowing the ingredients therein to be dispersed into the mixture at precisely the right time, and in the right amounts. Here are some reasons why batch inclusion bags are perfect for your application:

1. By having low melt bags of uniform size filled with identical amounts of ingredients, it becomes possible to have uniform mixtures. Batches will not vary from one to the other, because the possibility of imprecise measurements is completely eliminated.
2. All of the ingredients are dissolved into the mixture - 100% of the time. When using separate equipment to place each individual ingredient into the mix, not all of it can be poured. Inevitably, a little bit remains behind. With batch inclusion bags, every drop of every ingredient is included, ensuring a perfect blend every time.
3. There is no need to clean out tubs or weighing containers. Because low melt batch inclusion bags are pre-weighed and poured, you don't have to fuss with measuring and pouring ingredients, or spend a lot of time cleaning out the tubs for the next application.
4. Batch Inclusion Bags eliminate the need for separate in-house scales to weigh additives. By pre-weighing the ingredients when they are initially poured into the low melt bags, you no longer have to spend precious time weighing and measuring ingredients just prior to inclusion.
5. It's cleaner. With less to store and less to throw away, batch inclusion bags can help you save a lot of time and resources when it comes time to clean up.
6. It's just plain easier. Ask any of your employees and they'll tell you that it is a lot simpler to throw in a low melt bag full of the necessary ingredients as opposed to measuring and pouring them separately.
7. Your employees will be safer. With batch inclusion bags, the ingredients are pre-mixed and pre-packaged. Therefore, your employees will spend less time directly exposed to potentially harmful chemicals and other ingredients.
8. Because the low melt batch inclusion bags come pre-mixed, there is no need to worry about potential spills or other costly accidents that could have a negative effect on production costs.



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## Rubber Technology

With the launch of the Used Tires Stewardship Program on September 1st, 2009, scrap tires in Ontario will be directed for recycling first, supporting Ontario's 3R (reduce, reuse, recycle) efforts and helping to grow the Ontario-based tire recycling industry, thus driving investment in green industries and markets for these products.

The Used Tires Stewardship Program will work with all the groups who are associated with the tire industry and scrap tire process in Ontario:

- Stewards are tire manufacturers and importers of tires in the province and they provide the "fuel" that powers the Used Tires Program engine, funding the program by remitting Tire Stewardship Fees (TSFs) on all new tires supplied into Ontario. They are legally obligated to register with OTS and comply with the Program Rules contained in the Used Tires Program Plan, including filing monthly reports of new tires supplied into Ontario, and remitting the appropriate TSFs.

- Collectors are organizations that accumulate used tires from Ontario residents. Collectors play a key role in the operation of the Used Tires Program as the entry-point for used tires into the management system, accepting used tires from Ontario residents without charge and using OTS-registered Haulers to transport the tires to Ontario recyclers.

- Haulers are organizations that pick-up used tires from collectors and transport them to tire recyclers. Haulers who pick-up tires from registered Collectors and deliver to Processors registered with OTS are key players in the responsible management of scrap tires, ensuring that these tires are directed to the highest available recycling purpose. Registered Haulers pick-up tires from registered Collectors for no charge, enabling the free and easy entrance of these tires into the value-added recycling stream.

- Processors are organizations that take scrap tires and process them into a variety of Tire-Derived Products (TDPs) such as crumb rubber and Tire-derived Aggregate (TDA) that can be used in the development and maintenance of roads, sports fields and playground surfaces all around the country.

- Recycled Product Manufacturers are organizations that use TDPs as raw material, manufacturing the TDPs into rubber products we use in our everyday lives, from mats in skating arenas to mouse pads, and from engine components under the hood of your car, to subflooring under the carpet in your basement. Ontario is fortunate to have a number of scrap tire recyclers who currently handle approximately 50% of the scrap tires produced in Ontario each year. The balance of the scrap tires produced in Ontario today are shipped out of the province to a variety of end-uses including disposal in a landfill or by burning. The Used Tires Program goal is to change this situation so all of Ontario's scrap tires are recycled right here in the province.

### What are Tire-Derived Products (TDPs)?

There are different types of tire-derived products including:

1. Crumb Rubber is recycled rubber from scrap tires. During the recycling process steel and fluff is removed, leaving tire rubber with a granular consistency much like coarse sand or small gravel. Continued processing and grinding reduces the size of the particles further. The particles are sized and classified based on various criteria including color (black only or black and white). The granulate is sized by passing through a screen, the size based on a dimension (1/4") or mesh (holes per inch: 10, 20, etc.).

Crumb rubber can be used loose in playgrounds (as a substitute for sand) or as mulch in landscaping, or as a pour-in-place product in playgrounds where it is mixed in a liquid epoxy and spread like plaster to firm up into a bouncy but solid surface. It is also used as a raw material in the manufacture of molded products such as engine components, subflooring and mouse pads. Crumb rubber is also added to asphalt road mix to make roads that are quieter, shed water better and last longer.

2. Tire Derived Aggregate (TDA) is an engineered product made by cutting scrap tires into pieces nominally 25 mm to 300 mm, or as small as the bowl on a soup spoon, and as large as a dinner plate.

TDA is used in civil engineering applications such as: sub grade fill and embankments, backfill for walls and bridge abutments, sub grade insulation for roads, landfill projects, and septic system drain fields, and can be a feed stock for crumb rubber producers.

2. Fabricated Products often referred to as "cut" product. These are products made from cutting parts of the tire for other purposes. For example, using the sidewalls of the tire to create the base for traffic cones, or using the tread area to build blasting mats.

The Ontario Used Tire Program will work with the existing Ontario tire recyclers, and new businesses setting-up operations in the province, to increase capacity to recycle 100% of the scrap tires produced in the province, and to enhance the markets for the TDPs domestically and abroad.

### Rubber Crumb

Most of the scrap tires collected are recycled into crumb rubber, which is granules of rubber with steel and fibre removed. Crumb is



then used to create a variety of products including athletic tracks, non-slip pavers for patios, walkways and playgrounds and synthetic turf fields.



Rubber Mulch



Rubber Truck Flaps



Rubber Stall Mats



Rubber Playground Surfaces



Rubber Athletic Tracks



Rubber Mats



Rubberized Asphalt



Rubber Auto Parts



Rubber Shingles

With the Used Tires Program handling over 12 million tires sold in Ontario annually, Ontarians have a few more reasons to feel good about their next tire purchase knowing that their old tires are going to be managed in a manner that is both environmentally responsible and economically sound. Responsible management of used tires will eliminate the unauthorized disposal of scrap tires and promote safer methods of reusing and recycling scrap tires into green products. The Used Tires Program will spur economic growth and innovation within the scrap tire industry of Ontario by providing incentives and funding for the development of current and new end use markets for scrap tires.

Scrap tires are a valuable resource when reused or recycled into new products. Examples of recycled uses in Ontario are:

- \* floor mats used in hockey arenas and weight rooms
- \* soaker hoses for watering your garden more efficiently
- \* mouse pads to keep you productive on your computer
- \* rubber components for use in your car's engine

These kinds of high-value uses for scrap tires are what the Used Tires Program is working to encourage. Together with the existing Ontario recycled product manufacturers, and new entrants to the market, OTS will be developing new markets for these products, and exploring new applications for these materials.

Courtesy : www.ontariats.ca



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## Press Release

### LANXESS steps up commitment to biobased raw materials

LANXESS is strengthening its commitment to produce premium synthetic rubber from biobased raw materials. As part of this commitment, LANXESS has increased its minority shareholding in Gevo, Inc. that focuses on renewable chemicals and advanced biofuels.

LANXESS' shareholding now amounts to 9.1 percent after the world's largest synthetic rubber producer invested USD 17 million in the US-company's initial public offering. LANXESS initially invested USD 10 million in Gevo as part of a private placement in May 2010.

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Rubber market is expected to remain firm in the wake of unexpected rains in major rubber producing regions including that of India.

Malaysian market will also experience short supply. But prices are unlikely to have a steep rise as China's demand is not expected to rise. On the contrary, dealers say, the demand may come down thereby offsetting the supply deficit.

However, consumers like tyre manufacturers may face shortage in the long run. India's tyre manufacturer, Appollo Tyres, in fact is toying with the idea of buying rubber plantations to fight surging rubber prices.



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Used Rubber Machinery of Good Quality

### Technical Dictionary

#### Balance/Imbalance

The state in which a tyre and wheel spin with all their weight distributed equally. To correct an imbalance, a trained mechanic will add weights on the interior or exterior of the wheel.

#### Banded At Zero Technology™

Michelin® BAZ Technology™ uses spiral-wrapped nylon strips applied in the tread area atop the steel belts at zero degrees. BAZ Technology™ opposes centripetal forces that can cause tyre distortion at high speeds. BAZ Technology™ optimizes high-speed handling and durability.

#### Bead

The section of the tyre that sits on the wheel. Inside, there is a round hoop of steel wires, wrapped or reinforced by body ply cords, that clamps the tyre firmly against the wheel rim.

#### Bead Chafer

A key component of the tyre that is the contact point between the tyre and the wheel,

designed to withstand forces the wheel puts on the tyre during mounting as well as the dynamic forces of driving and braking.

#### Bead Filler

Responsible for transferring propulsion and braking torque from the wheel rim to the road surface contact area.



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### Information on Rubber

#### Why is the stretching reversible?

The section above describes why elastomers can stretch, but does not explain why, when the stretching force is removed, the material returns to its original shape. This can be explained by thermodynamics, and a much simplified description is given here.

When the rubber is 'at rest' at normal temperatures the chain-like molecules are in a constant state of agitation and are highly kinked - due to thermal energy.

This is a highly disordered state - described thermodynamically as being a state of high entropy. When the chains are stretched (less kinked), a higher state of order is obviously being imposed - in other words the chains are being forced into a state of lower entropy. As it is a fundamental law of thermodynamics that entropy strives for a maximum, the driving force is now back towards the disordered state, and, as soon as the stretching force is removed, the rubber will retract. Other factors, such as the structure of the carbon atom, also play a part, but will not be discussed here.

#### Fluid resistance

The structure of an elastomer, which we have seen comprises a network of chains, means that there are gaps between adjacent chains. Indeed the elasticity of rubber relies on substantial thermal motion of the chains, which would not be possible if the chains were closely packed. The free volume available in the rubber means that some liquids can enter the rubber and cause swelling - sometimes very large amounts of swelling. For example the ability of oil to swell natural rubber is well known. Potential for swelling is largely controlled by a thermodynamic property known as solubility parameter which is described elsewhere. All rubbers and all liquids have specific values of solubility parameter, a knowledge of which enables designers to avoid excessive interaction between an elastomer and the fluids which it will contact in service.

#### Incompressibility

Another property of elastomers which distinguishes them from other solid materials is their incompressibility. For most practical purposes, other than use under very high pressures, elastomers do not change their volume significantly when deformed. A rubber band may stretch 600%, but if its volume were measured in the stretched state it would be found to be almost identical to its unstretched volume.

This has important implications for designing with elastomers as the stiffness of components can be controlled, not just by altering the stiffness of the rubber itself, but by various techniques of geometrical design in relation to the mounting. This phenomenon, known as shape factor effects, will be described in more detail in standard text books, and leads to great versatility in design. In particular it enables rubber components to be designed with different, and controlled, stiffnesses and other properties, in two or even three different directions.

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www. goldstarrubber.com



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## Rubber Events

### Chinaplas

Venue: China Import & Export Fair Pazhou Complex

Country: Guangzhou, China

Start Date: 17-MAY-11 End Date: 20-MAY-11

Organizer:

Adsale Exhibition Services Limited

Contact Person: Ms. Iris Ho

Tel: +852-25163374

Add : 6th Floor, 321 Java Road North Point, Hong Kong, China

(Hong Kong S.A.R.)

Tel: +(852)-(2)-8118897/5165024

Messe Dusseldorf China Ltd.

Add : Units 307 - 308, Tower 1, German Centre for Industry and Trade Shanghai, 88 Keyuan Road, Zhangjiang Hi-Tech Park, Pudong, Shanghai, China

Tel: +(86)-(21)-61698300

### InterPlas Thailand

Venue: Bangkok International Trade & Exhibition Centre (BITEC)

Country: Bangkok, Thailand

Start Date: 23-JUN-11 End Date: 26-JUN-11

Organizer: Reed Tradex

Add: 100/68-69, 32nd Floor, Sathorn Nakorn Tower, North Sathorn Road, Silom, Bangkok, Thailand, Tel: +(66)-(2)-6867299

### Assembly Technology

Venue: Bangkok International Trade & Exhibition Centre (BITEC)

Country: Bangkok, Thailand

Start Date: 23-JUN-11 End Date: 26-JUN-11

Organizer: Reed Tradex

Add: 100/68-69, 32nd Floor, Sathorn Nakorn Tower, North Sathorn Road, Silom, Bangkok, Thailand, Tel: +(66)-(2)-6867299

### TYREXPO INDIA

Venue: Chennai Trade & Convention Centre

Country: India

Start Date: 05-JUL-11 End Date: 07-JUL-11

Organizer: ECI International Limited

Add: PRIORY PARK BEECH GREEN LANE, Withyham, Hatfield - TN7 4DB., United Kingdom. Tel: +(44)-(1892)-770777

### Thai international Plastics & Rubber Exhibition

Venue: Bangkok International Trade & Exhibition Centre (BITEC)

Country: Bangkok, Thailand

Start Date: 31-AUG-11 End Date: 03-SEP-11

Organizer: Messe Dusseldorf Asia Pte Ltd

Add: 3 Harbour Front Place #09-02 Harbour Front Tower Two, Singapore, Singapore Tel: +(65)-(6)-3329620

### Vietnam Plas

Venue: Saigon Exhibition & Convention Center (SECC)

Country: Ho Chi Minh City, Vietnam

Start Date: 21-SEP-11 End Date: 24-SEP-11

Organizer:

Chan Chao International Co. Limited

Add: 3-F, No. 185, Kangchien Road, Nei Hu District, Taipei, Taiwan, Tel: +(886)-(2)-26596000

### Plastex Ukraine

Venue: Kiev International Exhibition Centre (IEC)

Country: Kiev, Ukraine

Start Date: 25-OCT-11 End Date: 28-OCT-11

Organizer: Premier Expo

Add: 13-B, Pimonenko Street, Kyiv, Ukraine Tel: +(38)-(44)-4968645

### M-Plas

Venue: Kuala Lumpur Convention Centre (KLCC)

Country: Kuala Lumpur, Malaysia

Start Date: 09-NOV-11 End Date: 12-NOV-11

Organizer: Messe Dusseldorf Asia Pte Ltd

Add: 3 Harbour Front Place #09-02 Harbour Front Tower Two, Singapore, Singapore Tel: +(65)-(6)-3329620

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## Quick Company Profile

### Tyre Tubes, Flaps

#### Matangi Rubber Pvt. Ltd

Contact Person : Mohit Gupta  
Designation : Managing Director  
Products Description Tyre Tubes, Flaps,  
Compounding & Mixing

#### Head Office:

D-16, Defence Colony  
New Delhi-24  
Ph No: 91-11-41608373  
Factory Address:  
Khasra No : 1036, 1038 & 1039  
Industrial Area, Camp Road,  
Selaqui, Dehradun  
Email: matangi.india@gmail.com

### Rubber Chemical & Additives

#### Jinesh Chemicals Pvt. Ltd.

Jinesh Chemicals Pvt. Ltd. an ISO 9001:2000 certified company with a mission to manufacture fine specialty chemicals of high quality low cost and with excellent customer services. Jinesh is proud to be in the area of custom synthesis and contract research. We have capacity to work on special molecules from gm to Kgs & up to commercial scale size in production after conducting proper scale up studies in our multipurpose versatile plant. Our capacity in organic chemistry enables us to design multi step synthesis & achieve final results at affordable price. We are credited with custom synthesis product for BAUSCH & LOMB [United States based].

Products : Mfrs. of Rubber chemical- Antioxidant, fabric proofing

# 6, Federation House, 24/30, Anandilal Poddar Marg, Opp. Metro Cinema, Mumbai - 400002, Maharashtra, India  
Phone : 91-22-2206 7655, Fax : 91-22-2200 5448  
Email : sales@jineshchemicals.com, www.jineshchemicals.com

#### Mehta Traders

Dealers in Rubber Chemicals, Solvents, Plasticizers, Minerals, Waxes and Reclaim Rubber.

Products : Stearic Acid, Zinc Oxide, Zinc Hydroxide, C.I. Resin, CaCo<sub>3</sub>, Rosin, MEK, CPW, Sulphur, Fatices, Toluene, MGO, Acetone, Waxes, Mag. Carb, Sil. Emulsion, R.F. Resin, Xylene Plasticizers, Reclaim Rubber, Xylene

C/4, Indraloc, Old Nagardas Road, Andheri (E),  
Mumbai-400 069, Maharashtra, India  
Phone : 91-22-6699 1723, Mobile : 91-98196 08997  
Fax : 91-22-2834 2934, Email : mehta.traders@gmail.com  
Web : www.mehtatraders.com

#### Yasho Industries Pvt. Ltd.

Research and Development is our core strength. Continuous innovation, Process Upgrades and Product Enhancement, complement our 20 years' experience in manufacturing a wide range of speciality & fine chemicals such as Antioxidants, Rubber Chemicals, Cosmetic Ingredients and Aroma Inputs. Incorporated in the year 1985, Yasho Industries commenced exclusive operations in 1993. Our large-scale manufacturing facility incorporates Glass & Stainless Steel Reactors ranging from 45 - 10,000 litres and is equipped with various unit operations to support production activity.

Products : Rubber Chemicals, Cosmetic Ingredients

31-H, Laxmi Industrial Estate, New Link Road, Andheri (East),  
Mumbai-400 053, Maharashtra, India.  
Phone : 91-22-66929152 / 66929153 / 26310350  
Fax : 91-22-66929154, Email : yasho@bom3.vsnl.net.in  
Web : www.yashoindustries.com

#### Goldy Industries

Since 1980, Goldy Industries has been in the business of manufacturing and exporting "Goldy" brand of Rubber Moulded Products/ Yellow Polyurethane Moulded Products/ Sheet Metal Components etc. Since inception, we have given great importance to control the quality of products. Our manufacturing processes lay high emphasis on continuous technology upgradation. Infact in this course of time, we have become the world's trusted Indian source for a wide and comprehensive range of these type of products. The company owes its success to hard

work, dedicated staff and the policy of being totally committed towards customer satisfaction, not only through quality products but also through a very competitive pricing structure. We have the capacity of Developing and producing any item as per Customer requirements and specifications.

Products : Mfrs of Black Rubber Boat Trailer Rollers, Yellow Polyurethane Rollers, Marine Hardware Products, Sheet Metal Components, Rubber Molded Mud Flaps, Rubber Molded Products

28/127, West Patel Nagar, Delhi-110008, Delhi, India Phone : 91-11-25889675 Mobile : 91-9811130826  
Email : Goldyindustries@gmail.com, www.rubber-india.com

#### Atma Lubricants & Specialities Ltd.

ATMA LUBRICANTS & SPECIALITIES LTD. is a professionally managed company established under the Companies Act (1 of 1956) in the year 1995. The company has started its commercial production and marketing operations in the year 1999 after establishing required infrastructure for processing and marketing of Automotive, Industrial Lubricants and Speciality Oils. The main objects of the Company on its incorporation are, to engage in the Business of Processing, Blending, Compounding, Testing, Packing, Repacking, Selling, Marketing, Exporting and Importing, Transporting of Lubricants and other related products like Brake fluids, Lubricating greases from Indigenous, imported base stocks and other raw materials, and to deal in lube base stocks, mineral oils, Synthetic Base Stocks, Additives, and other Speciality Products.

Products : Mfrs of Automotive, Industrial Lubricants and Speciality Oils, We also undertake testing of Rubber process oils Flash point, Aniline point, and Automotive lubricants Flash point, Pour point, Viscosity index, TBN, copper corrosion, foaming, Ash, sulphated ash, oxidation stability etc

Address : 54-5-41, 5th road, Autonagar, Vijayawada, 520 007  
Andhra Pradesh, India  
Phone : 91-866-2544491 / 2543580  
Mobile : 91-9848198392 / 9885465626  
Fax : 91-866-6661261  
Email : info@atmalubricants.com  
www : www.atmalubricants.com

### Moulded & Extruded Rubber Products

#### IIEx Enterprise

IIEx Enterprise was established in the year 2008 in Jankapuri, New Delhi. Since then, we are hosting global clients by providing them a wide array of industrial products at competitive prices. Under the guidance-shelter of our respectable CEO, Ms. Shraddha Avasthi, we have learnt the art of dealing the valued clients by understanding their requirements and cater accordingly. His years of experience and expertise in this domain have earned us the tag of reliable Automotive Products Trader and Exporter in India.

Products : Ceramic Balls, Steel Balls, Grinding Media Balls, Cylindrical Roller Bearings, Industrial Rubber, Rubber Seals, Metalized Ceramics, Ceramic Microspheres, Fly Ash Cenosphere, Disposable Surgical Items, and many others

Jankapuri, Delhi-110058, Delhi, India  
Phone : 91-11-25517585, Mobile : 91-9810446156  
Email : info@indianindustrialexporters.com  
Web : www.microandcenosphere.com

#### India Oil Seals & Synthetic Products

India Oil Seals & Synthetic Products is one of the leading companies manufacturing various types of rubber products based in Kolkata, India. Established in 1966 as a small unit manufacturing o-rings and oil seals, we have come a long way and now offer a diverse range of rubber products like Conveyor Belts, Rubber Hose, Composite Hose, Sheets, Mats, Rubber lining etc. under the Brand name DURATUF. We have gained wide experience in the field of rubber technology experimenting in the field since the last 4 decades. The result of the vast experience has translated into our ability to offer the best quality materials at the most competitive prices.

Products : Conveyor Belts, Composite Hose, Rubber Hose, Rubber Sheets, Rubber Lining Pipe, Cold Banding Solutions, Rubber O Rings, Rubber Rings, Rubber Gaskets (In All Shapes)

P-36, India Exchange Place, 5th floor, Kolkata-700 001,  
West Bengal, India, Phone : 91-33-4005 2389,  
Mobile : 91-9831138388, Fax : 91-33-2225 4964  
Email : info@iossp.in, Web : http://www.iossp.in

#### Hat Rubbers

Established in 1987, Hat Rubbers is a leading Manufacturer and Exporter of all kinds of Moulded and Extruded Industrial Rubber components. Our Extrusion capabilities are available in straight or in bonded shapes to form an endless components. We can Extrude a custom profile of any size 2 feet to 50 feet in length of Buna-N, Viton, Silicon or E.P.D.M.

Products : Mfrs & Expts of Moulded Industrial Rubber Components, Specialized in 'o' rings & oil seals.

# 109, Angappa Naicken Street, Post Box No. 2046,  
Chennai-600 001, Tamil Nadu, India  
Phone : 91-44-25240876, Mobile : 91-9840052408  
Fax : 91-44-25221656, Email : hatrubbers@vsnl.net  
Web : www.hatrubbers.com

### Rubber Beltings

#### Neelkanth Beltings

Neelkanth is a proficient company that was founded in the year 1998. We introduce ourselves as one of the leading manufacturers of conveyor belts and flat transmission belts. In past years, we have made enormous progress by growing from a small company to one of the principal manufacturers of industrial belts. Neelkanth has been manufacturing and exporting a vast array of various high quality industrial belts. Our products are widely used in numerous applications. We follow the well proven quality standards of ISO 9000:2001. Our products are extremely efficient and reliable.

Products : Mfrs. & Exporters of Rubber Conveyor Belts, Chevron Belts, Power Transmission Belt, and Natural Rubber Sheets.

D-94 Sports & Surgical Complex, Jalandhar-144021  
Punjab, India. Phone : 91-181-2650862  
Mobile : 91-9814065424 / 9888995424  
Fax : 91-181-2650625, Email : info@neelkanthbeltings.com  
Web : www.neelkanthbeltings.com

#### Bharath Rubber (India) Limited

Every concept becomes a big success when ideas are put in a right direction. Our founder Mr. Muniyandi started this industry in 1984 with an aim to generate employment opportunities for the sons of his soil and others. At the beginning, our company was started with just 15 employees. At present Our company is generating job opportunities for 400 employees directly and more than 1000 persons in an indirect way. Initially our company was managing with hand molding operations by getting 500 Belts per day as the production capacity. By the way of TriFold development, We have increased this quantity in to 20000 Belts per day at present. Now our capable processing Machines are in full swing to produce world class products.

Products : Mfrs of Veegrip Power Band - V Belts, Plain Belts

1st Floor, 172/2, Bye-Pass Road, Fatima Nagar,  
Bethaniyapuram, Madurai-625 016, Tamil Nadu, India.  
Phone : 91-452-2386657 / 6537181,  
Mobile : 91-9244226657, Fax : 91-452-2386778  
Email : sales@veegripbelts.com, Web : www.veegripbelts.com

#### Global Exim India

Global Exim India is based at Cherthala in Alappuzha District which begins with coir and extended its product range includes to jute, cotton and rubber items of very good quality. The company is capable of catering all demands of the customers in any part of the world. Also its manufacturing facility is capable of large scale production with out any compromise on quality.

Products : Mfrs of Printed Entrance Mat, Inlaid Mats, Rubber Moulded Mats, Hollander Mats, Area Rugs, Special Mats, Geo Textiles, Coir Mattress, Textiles, Machine Paper Rolls.

Post Box No: 56, Power House Road, Cherthala - 688524,  
Kerala, India. Phone : 91-478 -3090488 / 2814905  
Mobile : 91-9447294556, Fax : 91-478 -2812006 / 294556  
Email : info@globaleximindia.net, www.globaleximindia.net



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## Quick Company Profile

### Dolphin Rubber Industries

Dolphin Rubber Industries Twenty five years of manufacturing and marketing experience. An imbibed ancestral of devotion and hard work in the field. Dolphin Industries today offers a diverse range of rubber products from the land of latex, Kottayam, South India. Currently a multi-locational organization, Dolphin is the result of the dedicated and skillful outputs of its professional personnel. Dolphin has also won awards for excellence in rubber manufacturing and marketing.

**Products :** Mfrs of Rubber Mats, Floor Mats

Industrial Development Plot, Poovanthuruthu,  
Kottayam - 686 012, Kerala, India  
Phone : 91-481-2340760 / 2340770,  
Fax : 91-481-2341761, Email : dolphinrubbers@dataone.in,  
Web : www.dolphinrubbermat.com

### Rubber Adhesives

#### Atlas Adhesives

Mfrs & Exporters of All kinds of Rubber Based Adhesives for the last 50 years supplying to various industries such as automobiles, leather, plastics, sports goods, foam, carpet laying, interior decoration, electronics, furniture and many others.

**Products :** Neosol Rubber Based Adhesive, Griptite Rubber Based Adhesive, Jyoti Kacha Solution, NeoSpray Sprayable Adhesive, Neo-PU Polyurethane Adhesive, Neosol Latex Adhesive

D - 13, Site - B, Surajpur Industrial Area, Greater Noida-201306, Uttar Pradesh, India  
Phone : 91-120-2560596, Fax : 91-11-29211335  
Email : info@atlasadhesives.com, www.atlasadhesives.com

### Chemfil India

We are an ISO 9001 : 2000 certified company in India since last 20 years. There is a reason for that the company has earned a reputation as a credible source since years in major business houses. It is only with consistent quality products and services, we have developed a good family of customers. We are supplying our quality products to OEMs, MNCs, Govt. approved contractors, Exporters, Vendors of MICO MARUTI SUZUKI TELCO MAHINDRA ASHOK LEYLAND PUROLATOR INDIAN RAILWAYS DEFENCE Thermal & Atomic Power Stations Steel Plants etc.

**Products :** Mfrs of Filter Adhesives, Filter Paper, Allied Resins, Epoxy Resin, Polyurethanes, Machinery related to filter industry, Rubber Components etc.

B - 39 / 19 - 20, Site - IV, Sahibabad Industrial Area,  
Ghaziabad - 201010, Uttar Pradesh, India  
Phone : 91-120-3251250/2895089  
Fax : 91-120-4110661, Email : info@chemfilindia.com  
Web : www.chemfilindia.com

### Rubber Raw Material Manufacturer, Supplier & Distributors

#### P. Dattani & Company

We introduce ourself as Leading Mine owner & Manufacturers of Chalk Powder, Whiting Chalk, Lime stone since last 60 Years. We are supplying our Products all over India to Parts & Rubber Industries. Our Products used as Fillers.

**Products :** Chalk Powder, Whiting Chalk, Limestone

M.G. Road, Porbandar - 360575, Gujarat, India  
Phone : 0091-0286-2242949, Mobile : 0091-9825712341  
Fax : 0091-0286-2242949, Email : dattanipbr@yahoo.com  
Web : www.pdattaniandcompany.com

### Tread Rubber Products

#### Rubfila International Limited

Rubfila International Limited (RIL) is a public limited company promoted by Rubpro.Sdn.Bhd., (RSB) Malaysia, along with Kerala State Industrial Development Corporation (KSIDC), to manufacture extruded Rubber Thread at New Industrial development Area, Kanjikode, Palakkad, Kerala

**Products :** Mfrs & exporters of Talc Coated Rubber Thread (TCR), Silicon Coated Rubber Thread (SCR), Food Grade Rubber Thread

New Industrial Development Area, Kanjikode,  
Palakkad-678 621, Kerala, India  
Phone : 91-491-2567261, Fax : 91-491-2567260  
Email : adora@rubfila.com, Web : www.rubfila.com

### Linings & Coatings

#### Sakthi Rubber Lining Works

Sakthi Rubber Lining works established in 1992 was born out of commitment to meet the needs of Rubber Rollers for Printing, Packing & Allied Industries. With three decades of experience to his credit Mr. T. Moorthy, M. Raja Mohamed, and S.Karunanathi has directed the company to new are has keeping himself a breast with the latest technologies worldwide. A technology driven company is guided with philosophy of providing state of art Rubber Roller.The company lays tremendous emphasis on reliability and customer support and has emerged as undistributed leader in its field continued up gradation of the machine has enabled the company to penetrate even in international market.

**Products :** Mfrs, suppliers,importers,exporters & distributors of Rubber Rollers

No.55-20,SidcoIndustrialEstate, Ambattur (Behind Korattur Tiny Sector), Chennai-600 098, Tamil Nadu, India  
Phone : 91-44-26350563 / 25504091  
Mobile : 91-9884136786, Fax : 91-44-26253638  
Email : info@sakthirollers.com, Web : www.sakthirollers.com

### Footwear

#### Cochin Rubber Factory

Cochin Rubber Factory is a trusted name familiar to any new home seeker because of the credibility in its dealings all through the long 20 years that marked its glory. Great care is given to our dealings in order to concretely strengthen the relationship with our customers as well as the society. Each and every product of Cochin Rubber Factory is prepared by highly experienced technicians consistent to the orders from our estimable customers. We make it a point to provide quick and efficient service in a time bound manner. Diversity with quality is what sets us apart from the rest.

**Products :** We manufacture all types of Designer Tiles Moulds, Tyre Flap, Hawaii Sheets and Chapels and a host of other industrial and automobile rubber moulds all to suite your order

Tc. 20/923, Lourde Nagar, P.O. Anchery P.O. ANCHERY, THRISSUR-680006, Kerala, India  
Phone : 91-487-2426383, 2443460  
Mobile : 91-9387112040/ 9495131060  
Fax : 91-487-2443460, Email : trc\_champion@sancharnet.in  
Web : www.cfchampion.com

### Reclaimed Rubbers

#### Talampally Rubbers Pvt. Ltd.

Talampally Rubbers Pvt. Ltd., is one of the young manufacturers and exporters of Whole Tire Reclaim Rubber in the primary form of Sheet recognized in India. Established in 2006, company deliver the products with specified quality, appropriate quantity and timely transit/shipment for both domestic and global end users under brand and dynamic leadership of Talampally Group management.Reclamation Plant situated in North Karnataka (India) with the latest equipment and technology. The company is serving a vast range of market segments from cycle tire, foot wear, battery containers, coir mats, conveyor belts/industrial belts, fire flaps and rubber moulded components.

**Products :** Mfrs. & Exporters of Whole Tire Reclaim Rubber - Whole Tire Superfine TRPL -SR, Whole Tire Fine TRPL - 100, Whole Tire Coarse TRPL - 101, Rubber Crumb 30/40.

Plot No: 139, 140, 141, Kalar Industrial Area, Bidar-585 401, Karnataka, India Phone : 91-8482-232771  
Email : talampallys@yahoo.co.in, www.rubbertalampally.com

### Rubber Hoses

#### Hydro Flex Engineering

Hydro Flex Engineering is manufacturing of low pressure hydraulic hose, polyhose. We are Authorised Distributors of : M/s RASVIN RUBBER PRODUCTS PVT. LTD., BHOPAL M/s POLYHOSE INDIA (RUBBER) PVT. LTD., CHENNAI

**Products :** Special Purpose Hydraulic and Pneumatic Rubber Hoses, S.S. Braided Bellows, Teflon Hoses, Air, Water and Pneumatic Hoses, Carbon Free Hoses, Heavy Duty Clamps, FRL Units.

Address : Plot No. A 158, H-Block, MIDC, Pimpri,  
Pune - 411018, Maharashtra, India  
Phone : 91-20-27456559, 30962863  
Mobile : 91-98909 05198/ 98505 82261  
Fax : 91-20-27452632  
Email : hyd@hydroflexengg.com, rke@pn3.vsnl.net.in  
Web : www.hydroflexengg.com

### Atlas Organics Pvt. Ltd.

Established in 1987, Atlas Organics Pvt. Ltd. is a manufacturer and supplier of various grades of Carbon Black, Tackifier Resins and Process aiding Resins.



Our Products have been well accepted and are being successfully used by various Rubber Industries, Plastic Industries, Paint Industries and Ink Industries.

Please contact for samples and specifications of our range of products.

Contact: 206, Ellisbridge Shopping Centre, Opp. Town Hall, Ashram Road, Ahmedabad-380006  
Ph. No. 079-26576180, Fax: 079-26576644  
Dr. N. T. Baddi: 9930879117, Alok Baddi: 9825006175, Vikas Baddi: 9825063459, 9426087601  
Email: atlasorganics@yahoo.com  
(Dealership Enquiry Solicited)

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V Connect your to the Right  
Source Instantly



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And Start Making Profit !  
Call: 91-9444113140.  
www.polymerconsultancy.com



We invite Technical Papers, Useful Articles, New Products write-up/ services Info to flash free in the Rubber Portal www.indiarubberdirectory.com Each product write-up should be about 200 words describing the product such as its technical specifications, special features, applications, etc, along with a clear photograph of the product. Do feel free to contact us AT 91-9444001705 / 42170137 OR mail to info@indiarubberdirectory.com rubberdirectory@gmail.com



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# RUBBER BUSINESS NEWS



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## Quick Company Profile

### Machineries & Testing Equipments

#### Bharaj Machineries Pvt. Ltd

Bharaj Machineries Company Pvt. Ltd. was founded in 1984. Since the company started we have been specializing in manufacturing all kinds of quality rubber processing machineries.

**Products :** Dispersion Kneader, vacuum Compression Moulding Machine, Compression Moulding Machine, Rubber Mixing Mill, Rubber Bale Cutting Machine, Calender

Plot No. 12 & 13, Survey No.66 Hissa No. 1/1, Naik Pada Village-WALIV, Taluka, Vasai(East), Dist-Thane-401 208.

Phone : (95250) 2452115, 2452116

Mobile : 91-9848198392 / 9885465626

Fax : 95250] 2451332

Email : bharaj@vsnl.com / info@bharajmachineries.com

www : www.bharajmachineries.com

### Reclaimed Rubbers

#### Fishfa Rubbers Pvt. Ltd.

Fishfa Rubbers Private Limited produces reclaim rubber from the scrap of natural rubber tubes, butyl tubes, This is one of the leading reclaim rubber industry situated in GUJARAT (INDIA), Company Produces two types of Reclaim rubber such as Butyl Reclaim and Natural tube reclaim. Fishfa with young, enthusiastic and experienced team, experience technocrats is reckoned for its innovative product, constant supply & dedication to the quality.

**Products :** Mfrs. of Reclaim Rubber, Butyl Reclaim, Natural Reclaim.

Plot No. G-1359/60, Nr. Rajmati Oil, G.I.D.C. Metoda, Dist. Rajkot, Metoda-360 021, Gujarat, India

Phone : 91-2827-287579, 287578

Mobile : 91-9427269353 / 9426201665 / 9824211410

Fax : 91-281-2571004 , Email : info@fishfarubbers.com

www : www.fishfarubbers.com

#### Swani Rubber Industries (SRI)

Swani Rubber Industries (SRI) manufactures International Quality Reclaim Rubber from sc rap tyres, butyl tubes, natural rubber tubes, tread scrap for applications in both tyre and non tyre rubber products. Established in 1970, SRI commenced production of the first plant with technical collaboration and machinery from Germany.

**Products :** Mfrs of Swani Rubber Industries is the manufacturers of reclaim rubber serving largest companies in the reclaim rubber industry. The Reclaim is manufactured solely from truck and bus tyre tread.

B-13/14, Industrial Area, Phase-1, SAS Nagar,

Mohali - 160055, Punjab, India

Phone : 91-172-501 3316, 227 3242

Mobile : 91-9872310268, Fax : 91-172-227 1385

Email : swanirubber@sify.com, Web : www.swanirubber.com

### Synthetic Rubbers

#### Silica House Pvt Ltd

Silica House Pvt Ltd started its operation two decades back in 1982. Driven by the mission of providing 'total solutions in Silicones', the company today has a annual turnover in excess of Rs 4 Crore. The growing customer base speaks of the long-term relations we build and maintain with new and old customers.

**Products :** Mfrs of Silicone Rubber, Synthetic rubber

404, Suneja Tower II, Distt Center, Janak Puri

New Delhi - 110058, Delhi, India

Phone : 91-11-25617557, 25613384

Fax : 91-11-25613384, Email : silica@del3.vsnl.net.in

Web : www.silicahouse.com

### Synthetic Rubbers

#### Industrial Polymers

We "Industrial Polymers" have a Manufacturing unit at Malegaon MIDC, Sinnar just 30 Km. away from Nashik & we can say at a focal Point just similar distancing from Mumbai & Pune Being on Highway making very easy connectivity for pride customers.

From all over India, Fast connectivity made it an area of high potential for planned Industrial development

**Products :** Mfrs of a comprehensive range of industrial rubber and printing rollers.

B- 110, M.I.D.C, Malegaon, Sinnar, Nasik - 422 103,

Maharashtra, India, Phone : 91-2551-230574 / 230533

Mobile : 91-9422253349, Fax : 91-2551-230074

Email : indpoly@hotmail.com, Web : www.indpolynasik.com

### Rubber Raw Material Manufacturer, Supplier & Distributors

#### Essar Rubber Industries

Essar Rubber was founded in the year 1975 with the principle of producing quality rubber products to achieve 100 % of customer satisfaction from each and every customer we handle. Our team has achieved the management vision and committed to continue their efforts by mastering skills, upgrading the technical expertise and adopting proven international production techniques in our manufacturing process. We are serving over 29 years, Catering the needs of automobile, chemical, industrial, defence, consumer products and pharmaceutical industries. We also specialized in developing rubber products for electrical and electronic industries and many more specialized fields.

**Products :** Mfrs. Moulded and automotive rubber parts

Old No.26, New No.14, Dharmaraja Kail Street, Chintadripet Chennai - 600 002, Tamil Nadu, India

Phone : 91-44-28411880 / 28413576/ 91-44-28534880

Mobile :91-9841161326, Fax : 0091-0286-2242949

Email : essarrubber@gmail.com, Web : www.essarrubber.com

### Moulded & Extruded Rubber Products

#### Sri Maruthi Industries

Established with vision to set standards of excellence, Sri Maruthi Industries, Chennai has been promoted by highly Qualified and experienced engineers with wide expertise in the field of Moulded Rubber products especially Oil Seals. We produce Oil seals in the brand name Classic Seals. Our company has been recognized as one of the leading Rubber Industry in South India. And also we manufacture various Industrial Rubber products such o-rings, Bellows, Diaphragms, Water Pump Seals and Rubber Rollers with superior performance and excellent quality. Our company is also specialized in making press tools and pressed components.

**Products :** Mfrs. of Oil Seals, Engine mountings, Rice Rollers & other Moulded Rubber products.

4/234, Vanagaram Road, Athipet, Ambattur Industrial Estate

Chennai-600 058, Tamil Nadu, India

Phone : 91-44-26522907 / 26358795

Mobile : 91-9840756027, Fax : 91-44-26358795

Email : maruthi\_industries@yahoo.com

Web : www.maruthirubber.com

### Logistics and Supply Chain Management

#### CTC FREIGHT CARRIERS PVT.LTD.

CTC FREIGHT CARRIERS PRIVATE LIMITED is a reliable and highly proficient provider of Freight Transportation Services and Transportation Warehousing Service. We ensure prompt delivery of the goods and at the same time assure their safety. We have a range of specialized trailers, trucks and LCV's for carrying out project transportation and ODC consignments.

**Products :** Odc Consignments, project Cargo, reefer Vans, lcv's, import-export Containers

C-510 Steel Chambers Kalamboli, Navi Mumbai - 410218

Maharashtra, India,

Phone : 91-22-27426993 / 27420241 / 27422341

Mobile : 91-9320295111

Fax : 91-22-27424881

Email : ctc@ctcindia.org

Web : www.ctcindia.org

### Extruded Rubber Products

#### Ambica Engineering & Wire Industries

Established in 1972, Ambica group is one of India's largest manufacturers & supplier of extruder screens which are also known as filter elements and melt filter alongwith wire mesh (woven wire cloth). This is a company that has always seriously believed in 'Quality, Assurance & Reliability' - a motto aimed at the highest level of quality products and unique personalized approach in service. More than 32 years of on going development and growth in the industry has earned an enviable reputation for us.

**Products :** Mfrs. & Exporters of Woven Wire Mesh & Extruder Screens - Circular Screen, Multilayer Circular Screen Pack, Multilayer Cylindrical Screen Pack, Multimesh Circular Screen, Filter Discs etc..

L - 44/45, G.I.D.C. Estate, Odhav, Ahmedabad-382 415,

India. Phone : 91-79-2287 1245, 2287 1786

Mobile : 91-98250 13333

Fax : 91-79-2287 1245, 2287 1786

Email : ambica@ambicagroup.com

Web : www.ambicagroup.com

### Auto & Cycle Parts

#### Ebenezer Polymer Pvt. Ltd.

Ebenezer Polymer Pvt. Ltd. is a leading manufacturer of rubber Components, which are widely used in automobile and engineering sector. The company was formed by Mrs. & Mr.F.Manohar during 1996 as a proprietary firm and both having sound knowledge in technical, chemical, commercial and marketing activities.

**Products :** Manufacturer of rubber Components, which are widely used in automobile and engineering sector. Oil seals and washers, Dampers and spacers, Bellows and tubes, Gaskets and 'O' rings

Plot No.166/46, Sahayog nagar, Gahangiri Maharaj Society,

Triveni Nagar, Talawade road, Pune - 412114,

Maharashtra, India. Phone : 91-21-27691936

Mobile : 91-9822344124, Email : ebanez01@sify.com

Web : www.ebenezerpolymers.com

### Rubber Chemical & Additives

#### Monachem Corporation

Monachem is a Chemical Distribution company in India since 1978 which offers Polymer Additives and Specialty chemicals to the Indian polymer & chemical industry by partnering with world class manufacturers through effective supply chain management. We are a team of 18 people with more than combined experience of 200 years within Indian Polymer & Chemical Industry.

**Products :** Mfrs of Antioxidant , UV Stabiliser, HALS Flame Retardants, Optical Monomer, Optical Brightener, Fumed Silica, PE Wax, Pigments, Antioxidant For Latex surgical Gloves/ Latex examination Gloves / Latex Condoms / Dipped Rubber goods / Elastic threads / Latex Sports Goods

604-A, Galav Chambers, Sayajigunj, Baroda - 390 005,

Gujarat, India, Phone : 91-265-2226243 , 2361527

Mobile : 91-9377292022, Fax : 91-265-2226079

Email : baburam@monachem.com

Web : www.monachem.com

#### Shiva Chill Rolls Private Ltd

SHIVA ROLLS was founded in 1974 and the team behind the success of this company of unique caliber was Mr. Shakti Chhabra the versatile genius managing director of the company and technically studious Mr. Jagdish Chhabra, management expert Mr. Dinesh Chhab

**Products :** Mfrs Of Rolls For Metal Industries, Rolls For Non Metal Industries.

RAIKOT ROAD, MALERKOTLA-148 023, Punjab, India

Phone : 91-1675-254423 / 252423

Fax : 91-1675-252434

Email : info@shivarolls.com

Web : www.shivarolls.com



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## Quick Company Profile

### Rubber Adhesives

#### Jesons Industries Ltd.

Jesons is Located with its head quarters in Mumbai, India and manufacturing base in Daman, (U.T.) Gujrat. Jesons started off in 1972 as a family owned and family oriented organisation catering to the adhesive requirements of local industries. Post 1993, in keeping with the steady growth and looking towards the potential of local and global markets, professional team were inducted into the company. Keeping intact the family oriented core values. Regular training sessions and added responsibility through empowerment created a sense of belonging amongst the employees. This feeling of ownership, combined with professional management, has brought the company to where it is today.

**Products :** Mfrs of Acrylic based, Rubber & PU based, Vinyl Acetate based.

904, Peninsula Tower -1, Ganpatrao Kadam Marg, Lower Parel (W), Mumbai - 400013, Maharashtra, India  
Phone : 91-22-66515253, Fax : 91-22-66515252  
Email : info@jesons.net, Web : www.jesons.net

### Rubber Beltings

#### Tega Industries Limited

Tega Industries Limited is the flagship company of the Tega Group of Companies, a name synonymous with pioneering achievements in the mineral processing, mining, material handling and environment industries.

**Products :** Mfrs of Conveyer Belts, Conveyor Accessories, Flow Promoting Equipment, Hydrocyclones, Mill Linings, Screen Decks, Sheet Rubber, Wear Resistant Liners

147, Block 'G', New Alipore, Humayun Kabir Sarani, Kolkata - 700053, WestBengal, India  
Phone : 91-33-24783515 / 24570338 / 24464723  
Fax : 91-33-24783649 / 3820  
Email : info@tegaindustries.com  
Web : www.tegaindustries.com

#### Anabham Koteswara Rao & Sons

At Present we are the only manufacturers of HAND WOVEN BELTS in the world. For the past 40 years we are manufacturing Handloom Endless Tapes, Belts and Ropes, which are Specially Designed & manufactured on our state of art Handlooms. We make Truly Endless Belts. The joining comes in the weaving itself and does not loosen as in the case of other jointed Belts. These are prestretched coated and the percentage of elongation is very less.

**Products :** Mfrs of Gamiture Tapes, Nylon Tobacco Band (Suctions Tape), Fixed Carriage Bands, Nylon EndlessRopes, Nylon Hammer Belts, Nylon Pull Cord, Paper Sheet Cutter, Belts.

Jakkavari Street, Perala P.O., Chirala - 523157, Andhra Pradesh, India, Phone : 91-8594-232948/ 237184  
Mobile : 91-9848152184, Fax : 91-8594-233596  
Email : inquiry@anabham.com, Web : www.anabham.com

### Rubber Tapes

#### Bestretch Elastomers International Limited

Bestretch Elastomers International Limited is a part of the multimillion-dollar RBG Group of companies that has interests in Synthetic Ropes, Twines, Nets, Elastic Rubber Tapes, Rubber Tapes, Software, Financial Services and Infrastructure Building. Bestretch Elastomers has risen to a commanding global position in the manufacture of Elastic Rubber Tapes for a variety of applications. Bestretch Elastomers delivers significant volumes of high quality Elastic Rubber Tapes to customers across the world, including some of the biggest names in the apparel, home textiles, medical disposables and sports industries.

**Products :** Mfrs of Apparel, Home Textiles, Medical, Miscellaneous, Synthetic Ropes, Twines, Nets, Elastic Rubber Tapes, Rubber Tapes.

4th Floor, Amar Avinash Corporate Plaza Plot No. D-2, Bund Garden Road, Pune-411001, Maharashtra, India  
Phone : 91-20-30538888 / 66056071  
Fax : 91-20-56024140, Email : info@bellindia.com  
Web : www.bellindia.com

### Tread Rubber Products

#### Moj Rubber Pvt Ltd

Moj the leading manufacturer of Tread & Pre-Cured Rubber and offering wide Range of patterns with outstanding field performance, applicable for all types of tyres. We are pledged to win your satisfaction as we trust in the quality of our products, by checking every stage of procurement of raw material, production and distribution.

**Products :** Mfrs of Precured Tread Rubber, Conventional Tread Rubber, Bonding Gum, Black, Vulcanising Solution

G-1108, Ladhika G.I.D.C., METODA - 360021, Gujarat, India, Phone : 91-2827-287230 / 287234  
Mobile : 91-9429045445, Email : mileage@mojrubber.com  
Web : www.mojrubber.com

### Rubberised Fabric Products

#### Bros India Group of Company

Bros India Group of Company Founded in 1932 as a coil products manufacturing factory, under the dynamic and excellent leadership of Mr. K.J. Paul, the founder's son, the firm flourished and started exporting in 1950's. Now BROSINDIA is a family group of concerns governed by the next generations we are people of nature, promoting 100% natural products, doing business in a fine and good way under the direct supervision of group members.

**Products :** Mfrs of Floor Covering, Erosion contro., palmyra fibre, Horticulture.

Post bag #:3 Muhamma post, Alappuzha - 3, Kerala, India  
Phone : 91-478-2862344/2863593  
Fax : 91-478-2862648, Email : brothers@vsnl.com  
Web : www.brosindia.com

### Rubber Hoses

#### Apcotex Industries Ltd

Apcotex Industries Ltd. (AIL) is one of the leading producers of Synthetic lattices (VP latex, SB latex, Nitrile latex) and Synthetic Rubber (SBR). Apcotex has one of the broadest range of products based on Styrene - Butadiene chemistry. Products include a range of lattices for applications such as Tyre cord dipping, paper / paper board coating, carpet backing, admixture for cement for construction, textile finishing etc. The various grades of Styrene Butadiene Rubber find application in the footwear industry, automotive components, V-belts, conveyer belts, hoses etc.

**Products :** Mfrs. of Synthetic Rubber Latex ( Vinyl Pyridine Latex (VP Latex), Styrene Butadiene Latex (SB Latex), Acrylonitrile Butadiene Latex (AB Latex)) Synthetic Rubber ( High Styrene Rubber(HSR)).

NKM International House, 178 Backbay Reclamation, Babubhai M Chinnai Marg., Mumbai - 400020, Maharashtra, India  
Phone : 91-22-22838302 / 04, Fax : 91-22-22838291  
Email : info@apcotex.com, Web : www.apcotex.com

### Rubber Matting

#### Dolphin Rubber Industries

DOLPHIN RUBBER INDUSTRIES Twenty five years of manufacturing and marketing experience. An imbibed ancestral of devotion and hard work in the field. Dolphin Industries today offers a diverse range of rubber products from the land of latex, Kottayam, South India. Currently a multi-locational organization, Dolphin is the result of the dedicated and skillful outputs of its professional personnel. Dolphin has also won awards for excellence in rubber manufacturing and marketing.

**Products :** Mfrs of Rubber Mats, Floor Mats

Industrial Development Plot, Poovanthuruthu, Kottayam - 686 012, Maharashtra, India  
Phone : 91-481-2340760 / 2340770  
Fax : 91-481-2341761  
Email : dolphinrubbers@dataone.in  
Web : www.dolphinrubbermat.com

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## Rubber Trade

This section is designed to help the people of rubber industry to sell or buy the rubber products/rubber machineries / rubber raw materials / rubber chemicals etc.,. Each members / users can furnish the full details of the products they wish to sell/buy effectively. Solid response is guaranteed for all your postings. Since thousands of potential worldwide buyers are using this section to source the products. Further in this transaction there is no middleman involved, hence you are going save lot of money and time. IRD offers this service completely free to all Premium Members.



### Want-to-Buy / Demand

#### Narula International

We are importer of synthetic rubber of EPDM, NBR, Butyl, SBR, PBR etc. off grade, near prime, stock lots etc.

#### Pioneer Group

We need about 2000 tons of waste or shredded tyre every month. I would also like to have a long term relationship.

#### Galaxy Reclaim Industry

Want to buy crumb powder and reclaim powder manufacturing from waste tyres total plant machines, if any one manufacturing this type of machines.

#### Shree Traders

We Are Traders Of Rubber Band In Chhattisgarh, Please Quote Your Price For Nylon & Florescent Quality Also Interested In Imported Rubber Band.

#### Smsrpl

I want to required bulk qty. rubber band for rajasthan market so pls send me business offer to our market.

### Want-to-Sell / Offer

#### Mehta Traders

We are dealers of various chemicals, solvents, plasticizers and reclaim/latex rubber. We are interested in selling Chlorinated Paraffin.

#### Sheth Ansuya Enterprises

We are manufactures of Automobile rubber parts like Bellows, Diaphragms, Brake kits and other products.

#### Gayatri Polychem Pvt Ltd

We are pleased to introduce our self as a leading manufacturing, for silicone product.


#### Akshat Industries

We Are Please To Introduce Our Selves As One Of The Manufacturer & Supplier For The Packing Mateiral Like Pet Strapping, Stretch Film Etc..

#### Genext Auto Industries

We are pioneer manufacturer of all kinds of rubber moulding & alluminium die casting componants as per oe specification.

To Know the contact details of the above companies kindly become our Premium Member Today! / For more info contact : 9444001705, rubberdirectory@gmail.com



### Ask Rubber Experts

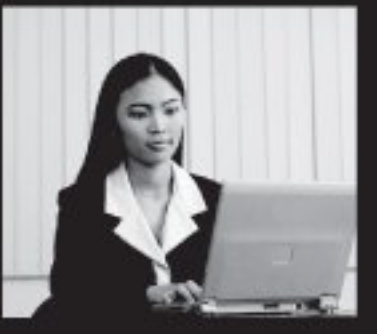
Critical solutions / suggestions will be charged based on the requirement.  
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for more info : rubberdirectory@gmail.com

IRD has a team of qualified rubber technologist having immense knowledge and skills gained through rich experience. Interested people and the rubber industry people can solve the problems /doubts right from compounding , processing to finishing the products by seeking our rubber expert advice . General information are provided at free of cost.

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Company Name and Address : .....

Starting Point Formulation - TRUCK TYRE RETREADS			
Material	NR based	NR-BR blend Based	Light Duty (LCV)\
NR (RSS-I)	100.0	75.0	80.0
Pilmast-7	0.1	0.1	0.1
Cis-polybutadiene	--	25.0	20.0
Zinc oxide	5.0	5.0	5.0
Stearic Acid	2.5	2.5	2.5
Pilnox TDQ	1.0	1.0	1.0
Pilflex 13/pilflex	0.5	0.5	0.5
ISAF Black	--	--	65.0
HAF Black	50.0	50.0	--
Highly Aromatic	6.0	12.0	20.0
Paraffin wax	1.0	1.0	1.0
Pilcure DCBS	0.7	--	--
Pilcure MOR	--	0.8	1.2
Pilgard PVI-50	--	0.3	0.4
Insoluble sulphur (100% active basis)	2.4	1.6	1.6



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## Rubber Price

### India Rubber Price (per 100 Kg)

Kottayam as on 17/3/2011

Category	Rs.		USD	
	Price	Change	Price	Change
RSS-4	21,500.00	+1,400.00	475.85	+31.87
RSS-5	21,200.00	+1,400.00	469.25	+31.86
ISNR-20	21,000.00	+1,200.00	464.80	+27.43
Latex	11,680.00	+315.00	258.50	+7.47

Cochin as on 17/3/2011

Category	Rs.		USD	
	Price	Change	Price	Change
RSS-4	21,500.00	+1,400.00	475.85	+31.87
RSS-5	21,200.00	+1,400.00	469.25	+31.86
ISNR-20	-	0.00	464.80	0.00
Latex	-	0.00	258.50	0.00

### Thailand

Kottayam as on 17/3/2011

Date	USS							Average	RSS Bale 3	Cup Lump	Field Latex
	Hat yai	Khlong Nga	Trang	Phuket	Surat- thani	Rayong	Ubon- ratchatani				
3/10/2011	138.00	138.00	139.00	139.00	139.00	138.00	138.00	138.43	143.50	115.00	118.00
3/10/2011	145.00	145.00	146.00	146.00	146.00	143.00	143.00	144.86	150.50	128.00	127.00
3/10/2011	162.00	162.00	163.00	163.00	163.00	162.00	162.00	162.43	167.50	132.00	143.00
3/10/2011	164.00	164.00	165.00	165.00	165.00	163.00	163.00	164.14	169.50	131.00	141.00
3/10/2011	165.00	165.00	165.00	166.00	166.00	164.00	164.00	165.00	170.50	130.00	146.00



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## Rubber Jobs



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Helps you reach quality local candidates 24/7

Reduce your time-to-hire

Get maximum returns to your investment

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### Job Seeker

Mr. Sandeep Tarafdar

M.Tech (Polymer Science & Tech) - 17 Years

Mr. Dixon Sequira

B-Tech (Polymer Science & Rubber Technology) - 15 Years

Mr. Shoaib Khan

Diploma in Rubber & Plastic - 11 Years

Mr. Prashant Parvelkar

Diploma in Rubber Technology - 6 Years

Mr. Sochin Chandran

B-Tech in Polymer & Rubber Technology - 5 Years

Mr. Navin Shekhar

M-Tech (Rubber Technology) - 4 Years

Mr. Avinash Yadav - Diploma in Rubber Technology

Mr. Dhawal Rajput - B.E. Rubber Engineering

For more details, send your mail to  
rubberbusinessnews@gmail.com,  
polymerminds@gmail.com or call 9444113140



### Employer

Sri Sai Rubber Products Pvt Ltd,

Needed marketing person, any graduate degree with previous experience in rubber field will be an added advantage.

Scorpion Industrial Polymers Pvt. Ltd.

Needed Production Supervisors and marketing executives.

Preferable : Diploma in Polymer/ Rubber Technology  
Good salary at par with industry

Team Polymers

Bright Candidates with interest in marketing field needed.

Polymer / chemistry backround is an added advantage.

Kohinoor Rubbers

Need production supervisors and production incharge of the Reclaim Rubber Industry.

Salary at par with the industry standards

For more details, send your resumes to  
rubberbusinessnews@gmail.com,  
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### Abbreviation of Rubber polymers

- ACM, Acrylic rubber
- BIIR, Bromo butyl rubber
- BR, Butadiene rubber
- CIIR, Chloro butyl rubber
- CM, Chlorinated Polyethylene rubber
- CR, Chloroprene rubber
- CSM, Chlorosulphonated polyethylene rubber
- ECO, Epichlorohydrin rubber
- EPDM, Ethylene Propylene Diene rubber
- FPM, Fluoro rubber

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## Glossary of Rubber Terms

### Compression Set

The residual deformation of material after removal of the compressive stress. Generally obtained after stress was applied for a given length of time at a specified temperature.

### Compression Stress Relaxation (CSR)

Measurement of the sealing force exerted by a seal or O-ring under compression, between two plates. Compression Stress Relaxation (CSR) provides the definitive

information for the prediction of the service life of materials by measuring the sealing force decay of a sample as a function of time, temperature and environment.

### Compressive Stress

The time-dependent force necessary to maintain a constant compressive strain, divided by the original cross-sectional area over which the force is applied.

### Cure

Similar to cross-linking and vulcanization, except that vulcanization refers specifically to sulfur cross-linking, while cure covers all types (sulfur, peroxide, radiation, etc.).

### Deformulation

Analysis of a product to determine chemical components and percentages.

### Degradation

Treatment of a disease (usually cancer) by a combination of chemical substances or drugs, that kill or impair disease-producing organisms in the body.

### Dispersion

1. The act of causing particles of matter to separate and become evenly distributed throughout a medium.
2. A system of matter in which finely divided particles of one or more phases (components) are uniformly scattered throughout another phase or medium (a plastisol).

### DMA

Dynamic Mechanical Analysis

A technique used to study and characterize materials. It is most useful for observing the viscoelastic nature of polymers. An oscillating force is applied to a sample of material and the resulting displacement of the sample is measured. From this the stiffness of the sample can be determined, and the sample modulus can be calculated. By measuring the time lag in the displacement compared to the applied force, it is possible to determine the damping properties of the material.

### DMTA

Dynamic Mechanical Thermal Analysis  
see DMA.

### DSC

Differential Scanning Calorimetry  
Analysis of heat flow in and out of a material as a function of temperature.

### Coefficient of Friction

Between rubber and dry surfaces, it is the ratio of the force required to move one surface over the other or the force pressing two surfaces together.

### Dye

Organic based material soluble in water or solvents.

### Dynamic

Characterized by constant change, activity or progress.

### Dynamic Properties

Mechanical properties exhibited under repeated cyclic deformations.

### EDAX

Energy Dispersive X-Ray Analysis  
Technique used to determine semi-quantitative elemental composition of solid material.

### Efficacy

The effectiveness of a drug for a specific indication.

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## Manufacturing Processes

### GENERAL PRINCIPLES

From a great many raw materials, of which the rubber polymers are just one part, thousands of products are manufactured. The areas of application for the products are numerous and very different. What we produce is not primarily determined by material or processes; our goal instead is to resolve our customers' problems. From this point of view, rubber technology is only one part of the solution.

The common part is that the products are based on rubber polymers. To go from raw material to product needs two phases,

one being a typical process operation and the second being more of a workshop type. In the first phase, the raw materials are mixed together to form a rubber compound. Each compound is made according to a specific formulation and the mixing is done according to such specifications as temperatures, time, and so forth.

The second phase is more like a kind of workshop, where the compound is formed, extruded, calendered etc., and finally ends up as a finished product through vulcanization. The methods vary from product to product, but all start with a compound, steel or textile when needed, and end up with curing.

Carbon black was used by the Chinese 500 years ago to make ink and

lacquer. The Romans also used it – for wall paintings. In rubber compounds, carbon black is used to improve strength and abrasion resistance. Particle size is important since smaller particles provide better reinforcement but also more difficult processing. An increased particle size improves the processing.

### Checking And Storage Of Raw Materials

After receiving the raw materials, random samples are taken for comparison with certificates from the supplier. It can happen that, for example, viscosity or moisture has changed due to incorrect transportation. It is important that correct storage conditions are adhered to, in order to avoid later problems in the process. Most of the raw materials can be stored at normal temperatures but a few need a cold storage area.

### Preparations before mixing

Natural rubber may need to be decrystallized before it is used in the mixing operation. In this case, it is heated up in a "heating room," normally at a temperature of 95-104 F. For special raw materials, a check will be made to ensure that no changes have occurred during storage, and then the mixing can be started.

### Weighing

Each product has a compound made from a special formula, and therefore the number of raw materials used is fairly high. From storage bins or direct from bags, the ingredients are weighed according to the formula, with high accuracy. If a mistake is made here, it is too late to correct it later on in the process. Each bag of raw material is properly marked to identify ingredients and weight.

### Mixing

Mixing is carried out either in open mills or in an enclosed chamber containing rotors. In both cases, the basic idea is to distribute and disperse all the ingredients in the rubber through heavy mechanical processing.

### Storing the compound

Every batch is controlled against a specification, and a maximum storage time is also specified.

The first trace of rubber used in Europe shows up in coal deposits in Germany. The raw material was not from the rubber tree, and the material, believed to be 55,000 to 60,000 years old, still had some elasticity.

### Extrusion

Long length products such as profiles and tubes are formed by extrusion. The same method is used for making other products, such as treads for tires. The extruder used has the same principle as a meat-grinder, with a screw that feeds the compound through a die. The compound is heated by friction and the extruder is cooled with water. When the profile has passed the die, it will be cooled in water if it is going to be vulcanized in an autoclave. Another method is to vulcanize continuously in either a microwave-heated oven, or in a salt bath.

### Spreading

At the start of the rubber industry in the 1800s, waterproofed textiles were in great demand, and the spreading technique developed early. A rubber compound is dissolved in an organic solvent and spread onto the textile with a knife. When the solvent has evaporated, a rubber film is formed on the textile, and the coated fabric is cured in a hot oven.

### Calendering

In production of sheets or textiles coated with a rubber that needs to be thicker than can be achieved by spreading, a calendering technique is used. Typical products are parts for tires, conveyor belts, hoses and sheeting and mats.

to be continued....

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Tensile Elongation In % : 800

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Tensile Strength : Excellent  
Flexibility : Good  
Strength Of Structure : Excellent

Resistance To Light : Good  
Resistance To Oxidizing : Good  
Resistance To Ozone : Good  
Resistance To Wear And Tear: Excellent  
Weathering Effect : Moderate

#### Resistance to

Lyes : Not Suitable  
Petrol : Very Good  
Benzole : Not Suitable  
Food Stuffs : Not Suitable  
Solvents,aliphatic : Very Good  
Solvents,aromatic : Moderate  
Solvents,halogene : Bad  
Oils And Greases : Very Good  
Acids : Not Suitable  
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## Rubber Technology

### Latex Processing

The first problem to be overcome was latex instability. The analogy to curdled milk has already been mentioned and the causes of the two events are the same – bacteriological attack. As early as 1791 Fourcroy had suggested that latex could be stabilised by the addition of alkali and in 1804 he proposed (unsuccessfully) that some of this stabilised latex should be shipped to France. In 1853 Johnson suggested ammonia as a preservative and, indeed, supplied Hancock with some ammonia-stabilised latex although by this time Hancock was in his 70's and was pretty well retired.

He made no significant reported use of it.

Perhaps the second problem was a simple lack of interest. The ways in which latex was collected in the Jungles of South America or the Congo (the two largest sources of the material) were hardly sophisticated nor were they suited to rapid stabilization of the latex by the addition of a chemical which was difficult to obtain in the jungles of the two countries! Uses for solid rubber were expanding rapidly and consumers would buy all that was on the market. It needed the development of the rubber plantations to provide a clean bulk supply of fresh latex which could then, if necessary, be stabilised and shipped in that form. It should also be remembered that latex coagulation by the addition of a weak acid such as acetic acid was adopted by the

Sri Lankan (Ceylonese) plantations around 1898 to give an extremely clean, pale golden coloured natural rubber unlike the brown or virtually black materials available from the wild. Like the alkali stabilization of latex, this process was some 100 years old but, probably for the same reasons, had not been adopted earlier. As the plantation output expanded, demand for clean natural rubber (not latex) soared, and we arrived at the First World War.

After the war things looked up for latex and 1920 can be taken as the year in which its potential started to be realised.

But this brought the third problem. Field latex, as collected, contains a lot of water. Levels vary depending on the clone and the season but a typical composition might be 30-40% rubber



It was expensive to ship so much valueless water around the world so research was directed towards increasing the DRC of latex – now normally stabilised with about 0.75% ammonia which was added as a gas from cylinders on the plantation. Several methods were developed but it should be noted that, starting from the same latex, they would yield concentrates with different properties and applications.

Concentration methods were:

1. Creaming
2. Centrifuging
3. Electro-decantation
4. Evaporation

The earliest attempts to increase the DRC of latex were by creaming – if only because it was observed to occur naturally! If latex is allowed to stand undisturbed it, again like milk, creams, or separates into two layers with the top one being rich in rubber (rubber has a density slightly below that of water). Creaming can be accelerated by warming or by the addition of certain agents such as sodium alginate. Creamed latex typically has a DRC of 60% and a total solids content of 61.5%. It can be seen therefore that it is proportionally much lower in non-rubbers than the initial field latex.

Centrifugal concentration was first used in 1898 but 'took off' in plantations after Uttermarck, (in 1923) described in a patent how he had modified a cream separator to produce a latex containing 60% rubber with no additives other than the stabilising ammonia at about 0.75%. This process today is probably the most often used.

Electro-decantation was developed by Stamberger and Schmidt in 1937 but never seemed to be a serious challenger to the other methods. It relied on the fact that latex particles carry a negative charge so they will migrate towards a positive electrode and, if the electrolysis is carried out through a

semi-permeable membrane, the concentrate will rise to the surface where it can be creamed off. The resulting latex concentrate was claimed to be very similar to centrifuged latex in composition and properties.

Evaporation of the water will obviously increase the DRC and this was the process developed by Hauser. The process requires rather more sophistication than simple evaporation as this will cause skin formation on the latex which will ruin its properties. Simplistically the process begins with the addition of a stabiliser followed by controlled evaporation off the surface of a heated revolving drum, the bottom of which is in



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## Rubber Technology

contact with the latex. It is possible to obtain latex concentrates of 80% or more total solids which have the consistency of paste. The process is reversible although the addition of water to restore the latex has to be carried out, again, with considerable care – hence the name of this latex (and the company which still manufactures it – Revertex...

There was then left one final problem. To find a method of vulcanizing latex products that did not require the use of unpleasant chemicals such as sulphur chloride. Although this chemical remains in use today to make a few specific articles it has

generally been abandoned in favour of the process known as pre-vulcanization of the latex. In 1921 it was discovered by Peter Schidrowitz (BP193451, 208235) that the addition of polysulphides to latex followed by controlled heating for a prolonged period of time gave a latex which was visually unchanged from the starting material but, when it was dried and gently heated, it had the properties of a normally vulcanized piece of dry rubber. The process was known as the Vultex process. Further work showed that by using sulphur and adding an accelerator the process could be carried out at (tropical) ambient temperatures and was thus ideally suited for use on rubber plantations where the field latex could be stored in large tanks. The presence of ammonia to preserve the latex does not interfere with the process.

The pre-vulcanized latex could then be converted to a product by one of the processes described later and then gently heated to give the finished product. The chemistry of this process was finally understood in the 1990's, following work at the Malaysian Rubber Producers' Research Association (now known as TARRC) in the UK. It was shown using transmission electron microscopy that there was initial crosslinking between the various elastomer chains within each particle of latex and that, on drying to a film, loose ends of the chains, which projected from the surface of each particle, acted like 'Velcro' to hold the particles together. Slowly at room temperature, or more rapidly at elevated ones, the chemistry of vulcanization continued with S-S bonds in the polysulphidic crosslinks breaking and reforming. Some of the reformed bonds were inevitably between the entangled polymer ends of different particles and the whole product then became chemically 'fused' together.

Two particular advantages of vulcanized latex over vulcanized 'dry' rubber are:

1. The latex tends to be very much stronger and elastic as the elastomer chains have not been degraded by the mechanical work needed to incorporate curatives into the dry material.
2. Since even post-vulcanization takes place at a relatively low temperature (generally below 120°C) it is possible to incorporate organic colouring chemicals which would not survive the high temperatures used for cost-effective conventional vulcanization (typically 160°C to 200°C).

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