



Volume 1 ♦ ISSUE 2 ♦ DEC 2017

₹. 100/-

The RMWA Journal

GUJARAT'S FIRST RUBBER MAGAZINE



BRAND AWARENESS

PRODUCT PRESENTATION

BUSINESS PROMOTION

15 - 16 - 17 December 2017
MAHATMA MANDIR
Gandhinagar Gujarat (INDIA)

**IIRS
Special edition**

In this issue :

IIRS Special

Overview on Rubber Rollers

Tyre Margin Expands

Rubber Injection Moulding

Brief in NETAP

Basic Chemistry & Terminology of rubber

www.rmwa.in

Your experts in rubber and
silicone injection moulding.

24/7

DESMA

STRATEGIES FOR SUCCESS IN RUBBER INJECTION MOULDING

- FIFO technology injection units
- 'Fully closed loop' controls - with 'intel' processor
- 'Zero' loss transmission delivery pump
- Efficient hydraulics
- Automation systems
- Cold runner blocks & Moulds



Soul & Solutions for Global Success

Kloeckner DESMA Machinery Pvt Ltd

Plot No.10, Road No.1, G.I.D.C., Kathwada, AHMEDABAD 382430, India

Contact : +91-79-6619 0000 | sales@desmaindia.com | www.desma.biz

Bhavik Enterprise

We build relationships that build business

Importer / Stockist / Distributor

Your Supply Partners For :

SILICONE ❖ EPDM ❖ CHLOROPRENE ❖ FKM
FVMQ ❖ Speciality Additives ❖ Speciality Elastomers


SK global chemical
S.KOREA
EPDM RUBBER

S501A, S537-2, S537-3, S512F
S5890F, S552, S5206F, S505A
S6090WF, S600WF


S.KOREA
SILICONE RUBBER

10 TO 90 Hardness
Certificate Available – FDA, BfR, RohS, TE/BE, Reach, UL etc
Platinum Cured/Transparent/Translucent/Speciality Grade
Solid & Liquid Silicone Rubber. RTV etc.

DENKA
JAPAN
Chloroprene Rubber

M40, M30, M120, S40V, A90,
A30, A100, A400, DCR Series

Fluoroelastomer

Orings, Seal and Gasket Grade
Peroxide Cured & High Fluorine Grades
Grades for Bonding with Silicone, NBR, ECO etc

Processing Additives

Anti-tack, Calcium Oxide, Internal Lubricant
Flow Improver, Homogenizer, S80

Peroxides

Peroxide for Silicone Rubber (Liquid, Paste, DCP)
Smell-less Peroxide Paste for Molding
Liquid Peroxide for Plastics/Crosslinkers


Silicone Rubber

20 to 80 Hardness
General Purpose Grades @ Competitive Prices

Other Grades – Property Enhancing Additives.

Services

Offer from Ready Stock ❖ Highseas ❖ Direct Import ❖ Sampling & Trials
❖ Application Development ❖ Technical Support from Principals

Admin. Office:

Neelkanth Business Park, D 720, 7th Floor, Vidhyavihar (West), Mumbai - 400 086. India.
Tel: 022-25092756, Extn: 207 | E-mail: sales@berubber.com / berubsil@gmail.com
www.berubber.com

Chennai Office :

Padmanabha Elastosil Pvt. Ltd.
No – 907 , Sarangapani Nagar (Near Sakthi Matriculation School) , Madhavaram,
Chennai , Tamil Nadu – 600060 , India
Email : sales@perubsil.in Website : www.perubsil.in



LEADTM RECLAIM
RUBBER
Assured Quality

AN ISO 9001 : 2008 CERTIFIED COMPANY

We Produce

WTR Reclaim | Natural Tube Reclaim
Butyl Reclaim | EPDM Reclaim
Crumb Rubber Powder



LEAD RECLAIM AND RUBBER PRODUCTS LIMITED

OFFICE ADDRESS :

B/23, Rajratna Bunglows, Nr. M.B. Patel Farm, Jashodanagar Cross Road,
Maninagar (East), Ahmedabad - 380050 (Guj.) India

FACTORY ADDRESS :

856/4, Village Pethai Sarali Road, Ta. : Kathlal, Dist. : Kheda - 387630 (Guj. India)
E-mail : info@leadrubber.com • Mobile : +91 7359 010 222 / 444 / 555

www.leadrubber.com

Publisher : RMWA (RUBBER MANUFACTURERS' WELFARE ASSOCIATION)

Project Head : Tarak Gajjar

Editor : Manoj Shah

Editorial Support : Deepak Doshi,
Yashodhar Kahate,
Nilesh Parikh

Content Support : Atul Shah, Ronak Panchal

Corporate Office : RUBBER MANUFACTURERS' WELFARE ASSOCIATION

B/413, Rudra Arcade, Nr. Helmet Circle,
Memnagar, Ahmedabad – 380052.

Phone : 079 27410226

URL : www.rmwa.in

Editorial / Subscription / Advertisement

E-mail to : info@grma.in

Creatives & Designs : Gautam Bhide,
Deepak Mistri

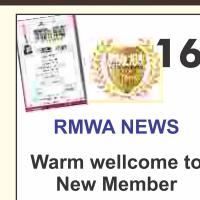
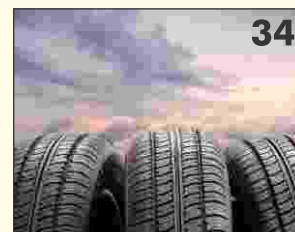
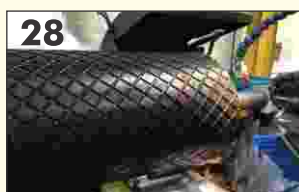
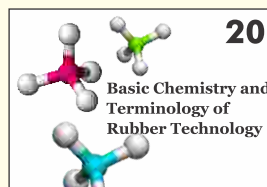
Printed By : Kasturi Graphics

5, Chandralok Society, Nr Cadila Laboratories,
Ghodasar, Ahmedabad - 50. (Gujarat) INDIA.
M : 09825433219

Contents of magazine	Page no.
Secretary Message	04
Editor's Note	06
Over View of IIRS 2017 & Stall Layout	08
Exhibition Participant List in IIRS 2017	14
Sponsor IIRS 2017	17
Basic Chemistry and Terminology of Rubber	20
Project Engineering-Rubber Injection Moulding	24
Over View of Industrial Rubber Rollers	28
Rubber Contracts, Tyre Margins Expand	34
Brief on NETAP	36
Advertisement Tariff	40

RMWA COMMITTEE MEMBERS

Dipak Doshi	: President
Yashodhar Kahate	: Secretary
Samir Shah	: Treasurer
Rupen Soni	: Vice President
Piyush Shah	: Vice President
Snehal Shah	: Jt. Secretary
Arpit Karbhari	: Jt. Treasurer
Rajesh Kothari	: Managing Trustee
Mukesh Desai	: Trustee
Rajendra Shah	: Trustee
Tarak Gajjar	: Trustee
Hemang Shah	: Working Committee
Ni mit Arora	: Working Committee
Yogesh Rangras	: Working Committee
Nilesh Parikh	: Working Committee
Smit Kothari	: Working Committee
Hirendra Patel	: Working Committee





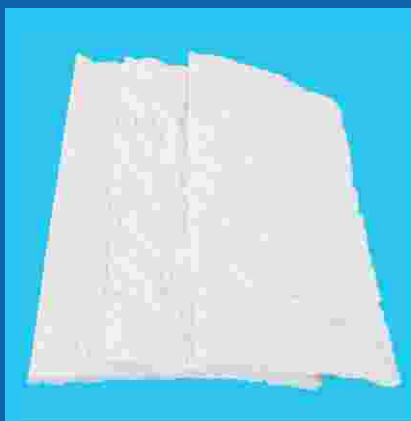
Fluoroelastomers **DYNAFLUON**

Dynafluon Designs & Manufactures Fluoroelastomer Polymer

Dynafluon follows individual customer need/specification to design Fluoroelastomer Polymer and Compound. Dynafluon customises Fluoroelastomer to suite end application, manufacturing process & specification.

Dynafluon offers high performance Fluoroelastomers for lower compression set, better abrasion resistance, improved stress/strain (modulus) characteristics, and other special properties required such as low post cure time, high tensile strength.

Dynafluon Fluoroelastomer Polymer and Custom Compounds are versatile material, flexible and designed for all processes like injection, transfer, compression moulding, calendaring, autoclaving and extrusion.



DYNAFLUON

406, Rainbow Chambers, S.V.Road, Poinsur, Kandivali (W), Mumbai 400067, India

Tel : +91-22-28652307 Fax : +91-22-28612795 Cell: +91-9320142795

Email: info@dynafluon.com / ajempl@gmail.com

www.dynafluon.com

Secretary Message INVITATION –IIRS2017

Yashodhar Kahate
Secretary, RMWA



In its long history, the Rubber Manufacturers' Welfare Association (formerly the Gujarat Rubber Manufacturers' Association) has many achievements to its credit. However, the India International Rubber Show (IIRS) is the jewel in the crown.

Just in its second edition, the IIRS has gathered much momentum. We had increased the saleable area by 66% compared to the first edition held in February 2016. The response has pleasantly surprised us. People from Mumbai, Delhi and even Kolkata have evinced interest to participate. The growing market of Gujarat has helped tremendously in gaining participation from suppliers of raw material and machinery from within and out of Gujarat too.

The biggest differentiating factor of IIRS from

other rubber expos is that it is aimed at promoting the rubber product manufacturers. Hence, one finds numerous stalls populated by rubber products besides those of raw materials and machinery. Normally, rubber product manufacturers prefer to participate in exhibitions catering to specific industrial sectors like pharmaceutical, textile, etc. We realized there was no event that specifically promoted only rubber products and have since been pushing this show as an event to attract all industries using rubber products as their input.

We are pleased to **invite you** to visit India this IIRS show being organized during 15-16-17 Dec 2017 @Mahatma Mandir, Gandhinagar, Gujarat. It offers a unique opportunity to engage and network with over 150 leading manufacturers / Traders from across the country.

I wish to thank all the persons responsible in making this event successful and also those responsible in making this issue of The RMWA Journal a great read.

Happy Participation in IIRS 2017...

dt Deeva Traders

We take great Pleasure in approaching our goodselves as
Authorised Dealers of following Manufacturing Company.



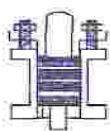
NATRAJ RUBBERS (BHAVNAGAR)

"NATRAJ" White Rubber Insertion Sheet, Natural, Neoprene EPDM, SBR, Nitrile & Silicon Calender Finish Rubber Sheet & Profile. (upto 4 Feet Width & Continues Length)



BORON RUBBER INDIA (BHAVNAGAR)

"BORON" Make Natural, EPDM, SBR, Nitrile, Neoprene, Electrical & Anti Skid Rubber Sheet, Moulded & Roto Cure Rubber Sheet. (upto 5 Feet Width & Continues Length)



CHAMPION JOINTINGS PVT. LTD. (MUMBAI)

"SPITMANN" Make Asbestos & Non Asbestos Fiber jointing Sheet & Metalic Spiral wound Gasket & Cut Gasket.



MECHANICAL PACKING IND. PVT. LTD. (MUMBAI)

"SPITMANN" Make Asbestos & Non Asbestos Gland Packing, Graf Seal Pkg., P.T.F.E., Bush, Rod, Tubes, Sheets, Tape, Bellows, Valve & Flex - O - Seal.



TIRUPATI PLASTIC INDUSTRIES (SILVASSA)

"TIRUPATI" make P.P.G.L. P.P.H.P., P.P.C.P., H.D.P.E. Sheet for fabrication works, lining of tanks, vessels & others chemical process equipments.

NOBLE POLYMERS (SILVASSA) P.P., HDPE Pipes & Pipes Fittings



OM RUBBERS & CHEMICALS (BHAVNAGAR)

Rubber Items By Extruding Moulding, Windscreen Weather Strips, Profiles, Channels, Cords, Moulded Components, Radiator & Fuel Hoses, Calendered, Sleeves, Rolls From all type of Rubbers.



THANAWALA & CO. (MUMBAI)

Cotton and Synthetic ropes, Cordges, tapes, webbings etc.



THERMAL PAPERS PVT. LTD. (FARIDABAD)

"THERMOSIL" Asbestos & Non Asbestos Mill Board for industrial INSULATION High Density Arc & Heat Resistant Asbestos & Non Asbestos Cement Board for Electrical & Thermal Insulation.

Akbari Building, Kadia Kui, Relief Road, Ahmedabad - 380 001. Ph.: (O) 079--22133517, 22122882
Tele Fax : 079-22125901 M.: 98252 35061, 99250 35061 E-mail : deevatraders@yahoo.co.in / deevatraders@gmail.com

Engineering Plastic, P.P., HDPE, Nylon, Delrin, P.T.F.E. & UHMW Sheet, Bush, Rod, Pipe, Tubing & Profile

Editor's Note Safety in Rubber Industries

Editor
The RMWA Journal



Manoj Shah

Dear Readers,

I Congratulate to whole team with excellent beginning. Let us keep up the momentum.

Let us talk about safety in rubber industry. Rubber industry is an integral part of chemical industry. There are numeral possibilities of accident in such industries. There are many MSME industries where reactors, thermal fluid heating system and steam heating autoclaves are working. All such industries are using raw material like organic solvents and chemicals. Accident does not happen with prior warning. Do we take enough care to avoid accidents?

We must take care to observe all safety parameter. Periodically all limit switches and steam regulatory devices should be checked and maintained. Places where organic solvents are stored / or used should be properly ventilated. Educate operators to use mask and other protective gears for their safety. Certain chemicals like silica, peroxide and sulphur bearing chemicals are health hazardous. Consider your organisation like your family. Assure their safety at works. Explain them about toxicity so that they are aware and do not commit any mistake.

We all know what happened at Bhopal in Madhya Pradesh in 1984, the biggest toxic gas tragedy. So please be alert take care. Human life is most important than anything else. Loss of near one / dear one is never compensated.

Happy Reading ...



SPONSOR



15 16 17 Dec-2017

**MAHATMA MANDIR,
GANDHINAGAR, GUJARAT (INDIA)**



**RUBBER MANUFACTURERS'
WELFARE ASSOCIATION**

(Formerly Gujarat Rubber Manufacturers Association)

**AAE AAKAR
EXHIBITION**
AAKAR EXHIBITION PVT. LTD.

Media Partners

**RUBBERCHEM
REVIEW**

**THE PHARMA
TIMES**
www.thepharmatimes.in

TIMES INTERNATIONAL
YOUR GATEWAY TO INTERNATIONAL BUSINESS
www.timesinternational.in

PharmaFLASH

FIREWORLD

RK Infomedia
Advertisement Promotion Company
www.rkinfomedia.com



OVERVIEW

India International Rubber show 2017 acted as a key Catalyst in Propelling the growth of the Rubber and other Rubber related Industries in Western India. IIRS Scheduled from 15-16-17 December 2017 Proved to be an ideal platform for the companies from across India to Showcase their Product Quality and Strength. It Extends its Propose to Both buyers and sellers of the Rubber Products and Rubber Related Machineries, Chemical, Raw-Material etc.

On One side Where there Sellers can cater to a larger Potential Client Group Even the buyers are Made aware of the latest Technological Changes Happening in the Industry, Which in turn helps them choose the best Available Product.

India International Rubber Show 2017, Showcased the best in the terms of Quality, Innovations and technology and served as a Conductive Platform in amalgamating the capabilities of the industry with the specific needs of the Manufactures and distributors and Suppliers. With a strong Base the Exhibition offers a unique advantage by not only Providing new Opportunities For Enhancing the business but also for augmenting the process with cost-effective Technologies.

Being an all inclusive rubber and allied products show, The Event Provided an Opportunity to exhibitions from Various Sectors to Spread awareness about their Products. This year the show have participation from Chinese companies and India Companies and Visitors from the PAN India.



RUBBER MANUFACTURERS' WELFARE ASSOCIATION
(Formerly Gujarat Rubber Manufacturers Association)

AAKAR
EXHIBITION
AAKAR EXHIBITION PVT. LTD.



CLIENT SPEAK

“ India is a very Important Market for Rubber Industry and exhibitions like IRS provides an ideal platform for companies like us to meet and interact with large number of quality rubber manufacturers from across India. We have been participating since last couple of years in the event and it has been very satisfying experience for us.

R. K. Zindal
General Manager
Upper India Ltd.

“ We have been participating in IRS since the inception and the exhibition has grown from a regional level to an international level. The quality of visitors are extremely good and we are generating business from across INDIA in this event. We congratulate the organizers of IRS for such wonderful event and great services.

Shrikant Shah
M.D.
Amgeen Minerals

“ Though Elastochemie Impex Pvt. Ltd. has always been part of this event it is my first time here and I would rank this event at par with any international level exhibition happening across the globe.

Deepak Singh
BDM
Elastochemie Impex Pvt. Ltd.

“ Lead Reclaim And Rubber Products Ltd. has always been a part of this event and we are satisfied with the visitors of the event. This exhibition gives us exposure to quality rubber Manufacturer and amateurs both.

Jayesh Patel
Director
Lead Reclaim And Rubber Products Ltd.



RUBBER MANUFACTURERS' WELFARE ASSOCIATION
(Formerly Gujarat Rubber Manufacturers Association)





VISITOR VIEWS

“ I have recently set up my studio in Bhopal and wanted to look for latest lights, backgrounds and other material for my studio. I had visited metro cities to source the same but what I can see and get in this exhibition is much better, the choice is much much wide and I can meet the suppliers directly. This is my 1st ever visit to Ahmedabad Exhibition but I will always be a visitor now.

Rajesh Patni ”
Surat

“ We had heard of this event since last couple of years and many of our business colleagues had visited last year, some how we missed it last year but this year we made sure we visit the show and next year we would be the first one to book our participation. The show is very professionally managed and with international participation, We are really impressed.

Sumit Patel ”
Mehsana



RUBBER MANUFACTURERS' WELFARE ASSOCIATION
(Formerly Gujarat Rubber Manufacturers Association)



AAKAR EXHIBITION
AAKAR EXHIBITION PVT. LTD.

B-701, WALL STREET, 2, OPP. ORIENT CLUB, ELLISBRIDGE, AHMEDABAD, GUJARAT. (INDIA)
MO.: +91 80000 82241 | OFFICE: 079-26469907 ❖ E-mail : js@aakarexhibition.com

WWW.INDIARUBBERSHOW.COM



SNAP SHOT



RUBBER MANUFACTURERS' WELFARE ASSOCIATION
(Formerly Gujarat Rubber Manufacturers Association)

AAKAR
EXHIBITION
AAKAR EXHIBITION PVT. LTD.

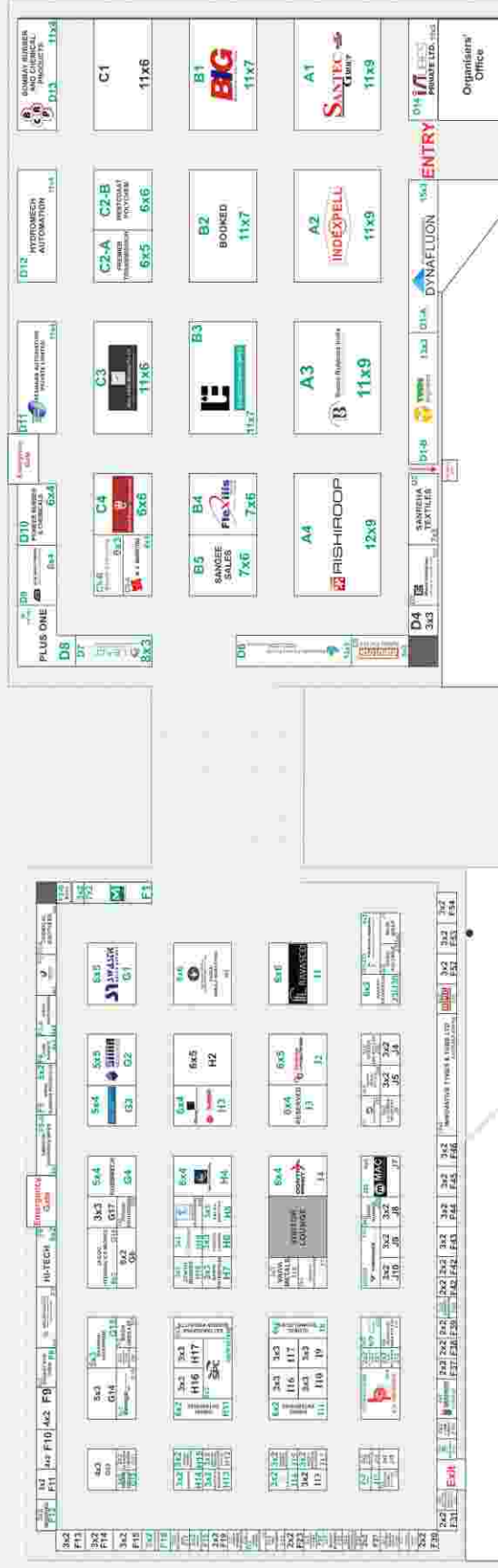


15 16 17
December - 2017

MAHATMA MANDIR
GANDHINAGAR, GUJARAT (INDIA)



AAKAR
EXHIBITION
AAKAR EXHIBITION PVT. LTD.



RATE OF PARTICIPATION

**Seminar
Halls**

1 Side Open :- Rs. 7000 Per sq mtr

3 Side Open :- Rs. 8000 Per sq mtr

2 Side Open :- Rs. 7500 Per sq mtr

Sponsors Area :- Rs. 10,000 per sq mtr

*GST Extra

• FOR STALL BOOKING / SPONSORSHIP CONTACT •

Jatin Shah ; Mobile : +91 80000 82241 / 81550 01193 / 81550 01192
Email : js@aaakarexhibition.com / indiarubbershow@gmail.com
Indore : 8821977585 | Kolkata : 7003315630



15 16 17

December - 2017

MAHATMA MANDIR, GANDHINAGAR,
GUJARAT (INDIA)

AHMEDABAD TO MAHATMA MANDIR MAP LOCATION



EXHIBITION ADDRESS

MAHATMA MANDIR CONCERT HALL, SECTOR 13, GANDHINAGAR, GUJARAT

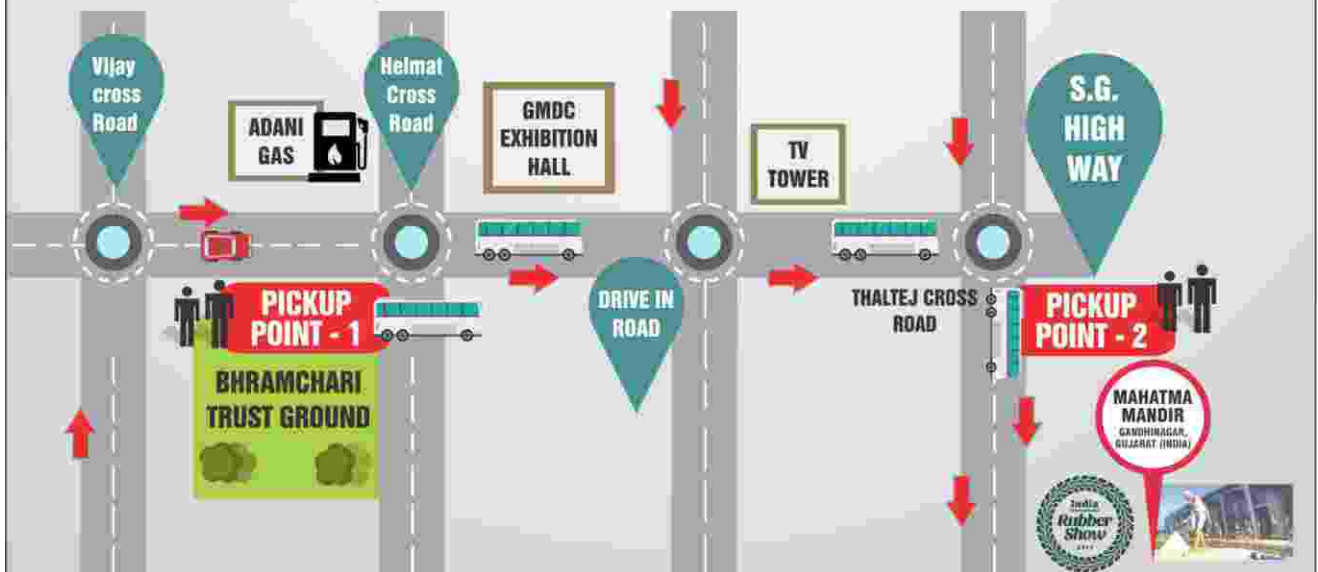
BUS PICKUP POINT

PICKUP POINT - 1

**BHRAMCHARI TRUST GROUND OPP. ADANI GAS PUMP,
HELMAT CROSS ROAD, DRIVE IN ROAD.**

PICKUP POINT - 2

THALTEJ CROSS ROAD, S.G. HIGHWAY.



MO.: +91 80000 82241, 81550 01193 | OFFICE: 079-26469907 ✦ E-mail: indiarubbershow@gmail.com
WWW.INDIARUBBERSHOW.COM

Participant List in IIRS

Company Name	Stall No	Company Name	Stall No
A.B. Brothers	D9	Manjeet Engineering	G13
Annpurna Exim (Dalian Baofeng Ltd China)	H5	Matrushree Rub Industry	J15
Arpit Enterprise	F4-A	Meditak Global Pvt. Ltd.	J16
Ashutosh Rubber	D4	Microquick Enginerr	F7
B.P Chemicals	J13	MK Marketing	C5-A
B.P Chemicals	J14	Modi Wrap Star Pvt.Ltd.	J1
B.P Chemicals	J19	Moon Urecast Pvt. Ltd.	G7
B.P Chemicals	J20	Motiba Sylicon	F1
Bhavik Enterprise	C5-B	Natraj Rubber	D2
Bharat Enterprises	D3	Navbharat Oxide	H1
Bharat Rubber Chem	J10	Nishignadha Polymers Pvt. Ltd.	D5
Bombay Chemical	D13	Omega Plasto	G10
Booked	B2	Oyster Ind Pvt Ltd	J29
Boron Rubber (Silver Sponser)	A3	P.D. Sales	F30
Chintan Rubber Products	F27	Pioneer Rubber & Chemicals	D10
Control Print India Ltd.	I4	Piyus Eng	H20
Devshakti Plasmould Industries	F26	Plus One Machinefabrik Pvt. Ltd.	D8
Dipak RubberJ	25	Pollye Rubbj	31
DynaFlaun	D1-A	Pollye Rubb	J32
Eeshaan Automation Private Limited	D11	Qingdao Huicai Machine	I7
Elastochemie	B3	Radhe Group	G12
Fajr	J12	Rane Elastomer	H3
Fine Polymers	F22	Ratan Poly Elastomers	F51
Finster Carbon	H6	Ravasco Swastik Industries LLPI	1
Flexilis Pvt. Ltd.	B4	Reliable Oil Seal	F17
Ganpati Enterprise	J3	Rohit Rubber	C4
Ganpati Enterprise	J30	Rubb-Mach	G4
Global Technologies	I8	Rubber Products	F20
Guru Krupa Mould	J17	Sagar Rubber	F25
Guru Polymer	J2	Samir Enterprise	H7
HEXA Plast	J11	Sanghavi Sales Corporation	G9
Hi Green Carbon	G11	Santec India	A1
Hi Link Printing SolutionJ	18	Saraswati Rubber Industries	F24
Hi Tech Boilers Pvt. Ltd.	F6	Satyanarayan Rubber And Plastic Industries	H8
Hydromech Automation	D12	Shani Rubber Product	J27
I .R.Tubes	D14	Shree Industries	F18
Indexpell	A2	Siloxane Aggrandize Innovative Industries	F32
J N Engineering	G2	Sima Industries	H2
Jaggu Hydraulics	G16	Surface Improvments (india) Pvt.Ltd.	G3
Jashwant Marketing	F40	Swastik Sales	E1
Jay Khodiyar Rubber	J21	Swastik Shivpriya Impex	F 5
Jemond Rubber	H15	Twin Engineers	D1-B
Kedar Rubber	F33	Uttam Industries	F21
Laxmi Agency	F4	Vaiva Metals and alloys	I 18
Laxmi Agency	F34	Vardhman Hoses Pvt. Ltd	J23
Lead Reclaim & Rubber Products Ltd.	D7	Vardhman Hoses Pvt. Ltd	J24
Mac Printing Solutions	J7	Viscon Rubber	F3
Mac printing solutions	J26	Xtreme Machines	I 2
Manav Rubber	C3	Yesha Engineering	J22
		Zenith Rubber	H18



Schedule for Concurrent Seminars during IIRS 2017

Date	Time	Topic	Beneficial for	Fee for topic	Faculty
15/12/17	14:15 to 15:45	Compounding and Mixing techniques	Manufacturer	Rs.450/- inclusive of meal coupon	Dr. Samar Bandyopadhyay Pukhraj Additives LLP
15/12/17	16:00 to 17:30	Bonding Techniques and Trouble Shooting	Manufacturer	Rs.450/- inclusive of meal coupon	
16/12/17	10:00 to 11:15	Rubber – What Users need to know	User	Rs.450/- inclusive of meal coupon	Mr.Manoj Shah Manufacturer & Consultant
16/12/17	11:30 to 13:00	Understanding ASTM D2000 and Material Selection	Manufacturer	Rs.450/- inclusive of meal coupon	Mrs.Suchismita Sahoo IRMRA
16/12/17	14:15 to 15:45	Combination of Black/Non Black Fillers	Manufacturer	Rs.450/- inclusive of meal coupon	Mr.Atul Shah M.E.Rubber Technology
16/12/17	16:00 to 17:30	Quality Assurance through Physical & Chemical testing	Manufacturer.	Rs.450/- inclusive of meal coupon	Mrs.Suchismita Sahoo IRMRA
17/12/17	10:00 to 11:15	Advance Polymers & Thermoplastic Elastomers(TPE)	Manufacturer	Rs.450/- inclusive of meal coupon	Mr.Atul Shah M.E.Rubber Technology
17/12/17	11:30 to 13:00	Rubber in sealing & Conveying application	User	Rs.450/- inclusive of meal coupon	Mr.Manoj Shah Manufacturer & Consultant
17/12/17	14:15 to 15:45	Rubber in Pharmaceutical and living applications	User	Rs.450/- inclusive of meal coupon	Mr.Manoj Shah Manufacturer & Consultant

•Cash Payment at Spot Registration available at Seminar Hall, IIRS 2017, Mahatma Mandir, Gandhinagar.

•For Advance Registration NEFT Details :

•Account Name : Rubber Manufacturers' Welfare Association * A/c No. 6281877317 * Bank : Indian Bank

•Branch : Drive in Ahmedabad * IFS Code : IDIB000D051.

Deposit slip to be presented on registration table.

•Contact: 07927410226 / 7567351972 Mail : info@grma.in

ONLINE VISITOR REGISTRATION TO IIRS-2017

Please click on either of following links

<http://www.rmwa.in/event-register.php>

<http://indiarubbershow.com/visitors-registration-2/>

RMWA News

New Members List



No.	Name and Address	Contact Details	Products
AAM-64	Sanghavi Sales Corporation 163 Ghasiram Street Sarangpur, Ahmedabad- 380 001	Jignesh Sanghavi -9374978581 <u>Email</u> : sanghavisales@gmail.com	Rubber labels Heat Transfer Labels Paper Stickers
LAM-65	Ravasco Swastik Industries LLP Swastik House, 159 Nagdevi Street, Mumbai – 400 003	Rajesh Ranjan - 9022842223 <u>Email</u> : rsrajesh@vsnl.net	Conveyor Belts/Rubber Sheets
AM-248	Krishna Rubber Industries C-1/10 GIDC Estate Chitra, Bhavnagar – 364004	Shailesh modi -9825206436 <u>Email</u> : Smodiad1@gmail.com	Rubber Hoses
AM-249	Madhu Silica Pvt. Ltd. 147, GIDC Estate, Vartej, Bhavnagar – 364060	Ramesh Shah- 9825205195 <u>Email</u> : Rameshshah@madhusilica.com Darshak Shah- 9825205190 <u>Email</u> : darshakshah@madhusilica.com	Precipitated Silica
AM-250	Matrushree Rub Industries 15/A Raman Estate, Nr.Gota Over Bridge, Gota, Ahmedabad – 382481	Alpesh Prajapati- 9558818472 <u>Email</u> : Matrushreerub2010@yahoo.in	Moulded Parts and Compounding
LM-251	Maruti Platorubb Industries 303, Nandanvan Complex Opp.RTO Subhashbridge Ahmedabad – 380027	Amit Srivastav -98257 99595 <u>Landline</u> : 07930525987 <u>Email</u> : marutiplatorubb@yahoo.com	Rubber O Rings and Gaskets
LM-252	Shree Gurumai Rubber Works 64/B Maheshwari Ind.Estate, Maheshwari Mill Compound, Tawadipura, Shahibaugh, Ahmedabad – 380004	Dinesh Prajapati -7600208309 <u>Landline</u> : 079 25620952 <u>Email</u> : dinesh.gurumairubber@gmail.com	Natural and Nitrile Rubber Compound
LM-253	Krishna Sales Corp. Lilabhai Desai Chawl, Opp.Visama, Dudheshwar Road, Mahdi Kuwa, Ahmedabad – 380004	Priyesh Prajapati - 9898454111 <u>Email</u> : piyeshoza@gmail.com	Natural and Nitrile Rubber Compound

Award & Recognition



VEE KAY VIKRAM & CO. LLP.

"VKVE HOUSE"

'D' Shivalik Business Center,
Opp. Golf Academy,
Rajpath Club X- Road,
S. G. Highway, Ahmedabad - 380054.
T/f: +91 79 40506111

Change in GST rate from 28% to 18 %

The Team members of RMWA presented case to Shri P D Vaghela, GST commissioner for the inappropriate GST rate. The GST rate is reduced now from 28% to 18% for the HSN code 4016 and 4017 – Rubber & Article thereof.

SPONSOR IIRS - 2017

TRANSFORMATION THROUGH INNOVATION

BORON RUBBERS INDIA



The Company was awarded this year at the MSME convention 2017, MSME Clusters – Basis of Innovation, Inclusion and Competitiveness in the category of Innovation Excellence.

THE UNIQUE SELLING PROPOSITION OF BORON RUBBERS INDIA IS CUSTOMIZATION....!!

BORON RUBBERS INDIA, THE COMPANY, WHICH HIT THE MARKET IN THE YEAR 1994 AS MANUFACTURER OF RUBBER PRODUCTS SUCH AS RUBBER SHEETS, HAS ALSO EVOLVED INTO CUSTOMIZATION OF RUBBER SHEETS, MOLDED PARTS AND CRITICAL PARTS FOR HIGHLY TECHNICAL USAGES. IT WOULD NOT HAVE BEEN POSSIBLE WITHOUT THEIR PASSION FOR INNOVATING NEW PRODUCTS.

THE RESEARCH AND DEVELOPMENT BASE OF BORON RUBBERS INDIA HAS REACHED TO SUCH A LEVEL THAT THE PRODUCTS MANUFACTURED BY

THEM HAS BECOME IMPORT SUBSTITUTE WHICH CLEARLY SHOWS THE DEDICATION OF THE COMPANY TOWARDS THE PROJECT TAKEN BY THEM. THERE ARE VARIOUS APPLICATORS LIKE ATOMIC REACTORS, NUCLEAR POWER PLANTS, NUCLEAR LABORATORIES, AIRPORTS, SUGAR & CEMENT FACTORIES, CHEMICALS & FERTILIZER UNITS, THERMAL POWER STATIONS, PORTS, RAILWAYS, STATE TRANSPORTS, TEXTILES & PAPER UNITS, AUTOMOBILES, TANK LINERS AND MANY MORE. THE USERS EXPECT A SURE RESULT FROM THE COMPANY AS

THE COMPANY FIRMLY BELIEVES IN IN-DEPTH THEORETICAL STUDY; SELECTION OF MATERIALS & LIFE VERSES COST PRINCIPLE FOR EACH AND EVERY REQUIREMENT AND OFFER A OPTIMUM QUALITY TO THE USER. THE VISION OF BORON RUBBERS INDIA WIDENS EACH YEAR AS THEY STRIVE TO DEVELOP NEW MARKET AND PUT A STEP FORWARD WITH INDIA-FRIENDLY NATIONS. THE VIBRANT GUJARAT AWARD IS AN EXAMPLE OF BENCHMARK ON HOW A MSME UNIT CAN DO BUSINESS DIFFERENTLY. "QUALITY IN TIME" IS THEIR WATCHWORD.

TODAY, BORON RUBBERS INDIA HAS POCKETED MORE THAN 22 COUNTRIES WORLDWIDE WITH OVER 50 UNIQUE PRODUCTS. UNLIKE THE TRADITIONAL BUSINESS ENVIRONMENT, WITHIN THE COMPANY THERE IS ALWAYS A SENSE TO COMPETE WITH SELF TO ATTAIN HIGHER RATE OF SATISFACTION AND CONSTANT EFFORT TO BOOST PRODUCTIVITY.

THIS ETHICALLY STRONG COMPANY HAS ABILITY TO TAKE CHALLENGES AND HAS A HABIT TO OBSERVE VERY CLOSELY TO THE PROBLEM. UPON STRICT INVESTIGATION FOR THE APPLICATION & ITS REQUIREMENTS TO FULFILL, AN OPTIMUM QUALITY IS DEVELOPED TO AVOID DELAYS IN SAMPLING AND TRIAL & ERRORS.

BORON RUBBERS INDIA HAS CUSTOM DESIGNED THE RUBBER SHEETS TO MEET MANY VARIED APPLICATIONS ON SEVERAL DIFFERENT LEVELS WHILE MAINTAINING A VERY ECONOMICAL BASIS FOR END-USER.



**EXPERIENCE
QUALITY**

HOUSE OF RUBBER SHEETING

**PLATE FINISH
ROTOCURE FINISH
CUSTOM DIMENSIONS
TEXTURED IMPRESSIONS
CLOTH / NYLON INSERTIONS**

BORON RUBBERS INDIA (IN THEIR RUBBER SHEET DIVISION) MANUFACTURES NATURAL, NEOPRENE, NITRILE, EPDM, NR/SBR, BUTYL RUBBER SHEETS & MANY MORE. IT IS SINCE 10 YEARS THIS COMPANY IS EQUIPPED WITH REHOMETER, TENSILE TESTER, SPECIFIC GRAVITY METER, MUFFEL FURNANCE, OVEN & HYDRULIC PRESS FOR ALL ITS BATCH RECORDS AND ANALYSIS. ALL THEIR SHEETS ARE MANUFACTURED USING ROTO CURE MACHINE (UPTO 12MM THICK – ONE OF ITS KIND IN THIS CATEGORY) SINCE LAST 11 YEARS & HENCE

BECOMES ONE OF THE FEW PIONEERS TO MAKE LONG LENGTH SHEETS IN INDIA. WITH A CURRENT CAPACITY OF 5000 KGS/SHIFT, IT CAN SATISFY BULK REQUIREMENTS. THE COMPANY HAS THE ABILITY TO DEVELOP CUSTOMIZED RUBBER PRODUCTS FOR END-USERS THROUGH DEALERS, VENDERS & EVEN MARKET OPERATORS. THE COMPANY BELIEVES FIRMLY THAT FACTORY UNITS SHOULD OPERATE IN LESS MAINTANENCE WITH MORE PRODUCTIVITY BY USING GOOD QUALITY RUBBER PRODUCTS. CUSTOMER SERVICE AND SATISFACTION HAS ALWAYS BEEN FOREMOST IN THEIR MIND AND THEIR DEDICATION TO GIVE OPTIMUM QUALITY WITH COMPETITIVE PRICE. EACH PRODUCT IS COMPREHENSIVELY TESTED BEFORE IT GET'S DISPATCHED.



**EXPERIENCE
PERFECTION**



MADHU SILICA PVT. LTD.

Manufactures of Precipitated Silicas

Regd. Office : 147, GIDC, Vartej, Bhavnagar-364060, Gujarat.

Ph: 91-278 -2540 800, 2541 766, 2541 866, 2939 550, 2939 560 • Fax: 91-278-2541 200

Email: madhusilica@madhusilica.com

Website: www.madhusilica.com

Madhu Silica Pvt. Ltd. (MSPL) is the largest manufacturer of **Precipitated Silicas** in India and 4th largest (*) in the world.

Our more than 50 grades of Precipitated silicas today find usage in end applications in various industries. The company has 4 established plants capable of manufacturing 2,00,000 MT/annum.

Apart from a large Indian market, the company exports their products to more than 40 countries.

The Company is ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007, ISO 22000:2005, FAMI-QS, FDA Certified and Registered for REACH

DU IV Plant (3D Image)

Spread across 28 acres of Land

Glimpses of our plants and Admin office...

Our Markets & Silica Grades

1. Tyre / Rubber / Footwear / Misc. Rubber Applications
2. Oral Healthcare / Cosmetics / Pharma Applications
3. Food / Feed applications
4. Speciality applications
5. Polymer / Plastics / Paints applications (Gel route Silicas)

Precipitated Silica for Tyre & Rubber Goods

We manufacture high performance grades of Precipitated silica having wide range of surface area and porosity, found to be suitable for broad application areas like in Tyres, Conveyor belts, Shoes soles, Micro sheets, Rice rollers, Engineering rubber goods, Battery separator etc.

Apart from conventional Silica we manufacture Highly Dispersible silica and Dust free silica.

(*) Ranking as per Notch Report

RESEARCH & DEVELOPMENT

SINCE 1996



D.S.I.R. GOVT. OF INDIA RECOGNISED CENTRE

Facilities ...

1. World class manufacturing facilities to give customer satisfaction through Consistency in Quality
2. Inhouse **Rubber, Dental, Paint Application Labs.**
3. World class **Research & Development Centre**, since 1996, recognized by DSIR, New Delhi.

MISSION

Mission to serve the Industry by offering consistent quality products, product accessibility with differentiating services.

VISION

With a vision to create a Brand Image bringing in sustainability with growth.

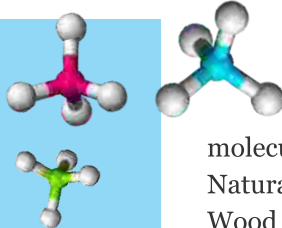
VALUES

Keeping intact the values for core competence in Governance with Integrity, Accountability, Passion and Diversity.

With YOU ... We Move AHEAD
Innovation * Sustainability * Growth

Basic Chemistry and Terminology of Rubber Technology

Manoj Shah



I will briefly explain above subject to enable all [having any academic back ground] to understand the basics. This will be helpful to understand detailed upcoming articles which will be published here in future.

For the sake of simplicity we divide this article into four parts.

- [1] Basic chemistry
- [2] Polymer science
- [3] Rubber technology
- [4] Terminology.

[1] BASIC CHEMISTRY

Matters- there are more than 100 matters in nature. E.g. sodium ,calcium , zinc , etc.

Atom- smallest possible part of matter is called atom. Modern atomic physics has proved that atom is divisible in further small part like electron, proton , neutron , etc. Atoms are either positively or negatively charged. They join to each other in different capacity. Such capacity is known as valence.

Symbols for certain matters are as under:

Hydrogen [H]	Oxygen [O]
Carbon [C]	Sodium [Na]
Nitrogen [N]	Chlorine [Cl]
Fluorine [F]	Calcium lCa]
Aluminium [Al]	Silicon [Si]
Barium [Ba]	Zinc [Zn]

Molecule- The smallest possible part of compound is called molecule. It is made of many atoms by joining together. E.g. Methane [gas] CH_4 Rubber [solid] C_5H_8 Wood - paper [solid] $\text{C}_6\text{H}_{10}\text{O}_5$ Benzene [liquid] C_6H_6

Macro molecule- By polymerization small molecule joins with each other to make a big

molecule, known as macro molecule. E.g. Natural rubber $[\text{C}_5\text{H}_8]_n$ where $n = 20000$
Wood – paper $[\text{C}_6\text{H}_{10}\text{O}_5]_n$ where $n = 2000$

[2] POLYMER SCIENCE

- Polymer means material like rubber, plastics and fibres. Polymers are made from basic chemicals. E.g. isoprene, butadiene, ethylene, propylene Isoprene is low boiling point liquid. Monomers of isoprene polymerize to form poly isoprene [polymer].
- This process is known as polymerization.

There are two types of this process

[1] Addition polymerization. There is no loss of atom. E.g conversion of Ethylene gas to polyethylene.

[2] Condensation polymerization e.g. Thiokol rubber. There is loss of atom and a bi-product is formed.

- Polymerization may produce two types of structure.

[1] CIS [2] TRANS

CIS Natural rubber

TRANS Neoprene rubber.

Thermoplastic Polymers

Rigid - Poly Vinyl chloride (PVC)

Flexible - Polyethylene (PE)

Rubbery - High Styrene resin & (PU)

Thermosetting Polymers

Epoxy / PF resins & abonite

Highly Loded/Cured Rubber

Lightly Cured Rubber

[3] RUBBER TECHNOLOGY

- Converting polymers to commercial product is rubber technology. By mixing different chemicals with polymer , a polymeric compound is formed.
- curing converts such compound to usable product.
- Vulcanization /curing / cross linking means joining two polymer chain with one or more sulphur atom.
- Cross-linking term is attached to peroxide curing.
- Sulphur is very inert material. [S8]. Accelerator generates reactive sulphur radicle. Thus sulphur



D-U-N-S NO. 86 - 255 - 7690

Our Products are compliant with European Standards REACH & RoHS

ASHUTOSH RUBBER PVT. LTD.

MANUFACTURERS OF ALL TYPES OF RUBBER & TPE PRODUCTS

www.ashutoshrubber.com



ashutoshrubber

We MANUFACTURE
9000 DIFFERENT
RUBBER&TPE
PRODUCTS FOR
VARIEDAPPLICATIONS.

WE ARE CERTIFIED FOR QUALITY MANAGEMENT SYSTEMS

ISO 9001	IATF 16949 for AUTOMOTIVE	AS 9100C for AEROSPACE	ISO 14001 for ENVIRONMENT	OHSAS 18001 for HEALTH & SAFETY
---------------------	---	--	---	---

WE MAKE RUBBER PRODUCTS FOR

- AUTOMOBILE ORIGINAL EQUIPMENT MANUFACTURERS (OEM-AUTO)
- ORIGINAL EQUIPMENT MANUFACTURERS (OEM-OTHERS)
- PIPE INDUSTRY
- CEMENT CONCRETE INDUSTRY
- AGRICULTURAL EQUIPMENTS
- POWER TRANSMISSION (COUPLINGS)
- PUMPS & FOOT VALVES
- OIL ENGINE GENERATORS
- HYDRAULIC & PENUMATICS
- RUBBER ELECTRICAL INSULATORS
- CUSTOM MADE RUBBER PRODUCTS
- ANTI VIBRATION MOUNTINGS

READY MADE RUBBER PRODUCTS RANGE OF

- O-RINGS
- OIL SEALS
- O-RINGS BOXES

Factory (Unit-1): 2516, Lodhika GIDC Industrial Estate, Inside First Gate, H1 Road, Metoda, Kalawad Road, RAJKOT - 360 021. GUJARAT, INDIA. Phone: +91 - 2827 - 287 827, Email: info@ashutoshrubber.com

Corporate Office & Correspondence: Sterling Apts., Near Jubilee Baug Chowk, Jawahar Road, RAJKOT - 360 001. GUJARAT, INDIA. Phone: +91 - 281 - 222 6161, 222 9090, Email: mktg@ashutoshrubber.com

- & accelerator OR peroxide converts polymeric compound into finish elastic rubber products.
- Brief summary of processes conducted in rubber industry.
-

1. COMPOUNDING

Polymers / Chemicals / Softners / Fillers / Curatives

2. PROCESSING

(A) Mixing

Open Roll / Banbury / Internal

(B) Shapping

Extruding / Calendaring / Spreading

2. VULCANIZING

(A) Moulding

Compression / Transfer / Injection

(B) Steam Curing

Autoclave / Open Steam / Jacketed

(A) Hot Air Curing

Oven / U.H.F.

- All these topics require detail understanding which we will try to provide here in forth coming article.

[4] TERMINOLOGY

There are certain terms which consist specific meaning. Here we will try to Define the same .

- [1] **Accelerator** / A chemical which speed up vulcanization.
- [2] **Aliphatic** / Straight chain organic compound. e.g. alkanes, alkenes
- [3] **Antioxidant** / A chemical which slow down oxidation process.
- [4] **Aromatics** / Unsaturated cyclic hydrocarbon. e.g. benzene, xylene
- [5] **ASTM** / American society of testing material.
- [6] **Cold flow** / Deformation under constant pressure.
- [7] **Co-polymer** / Polymerizing two dis-similar monomer e.g. SBR rubber
- [8] **Ter-polymer** / Polymerizing three dis-similar

monomer e.g. EPDM

[9] **Elastomer** / Polymer capable to return to its original shape after distortion.

[10] **Elongation** / % Increase in original length. [Strain]

[11] **Compression set** / % Of failure to return to original size after release from constant compressive load.

[12] **Elasticity** / Tendency of material to return to its original shape.

[13] **Hardness** / Resistance of rubber to forced distortion.

[14] **Mooney viscosity** / Measurement of plasticity [viscosity] of uncured Compound or polymers by an apparatus known as mooney viscometer.

[15] **Mooney scorch** / Time to measure premature cure at elevated temp.

[16] **Stress [T.S.]** / Applied force per unit area.

[17] **Tensile strength** / Pull apart strength when stretched to the breaking pt.

[18] **Tear resistance** / Resistance to the growth of cut.

[19] **Modulus** / Tensile stress force required to produce specific increase in length.

[20] **Fluid** / A liquid or gas.

[21] **Oxidation** / Reaction of oxygen with rubber products resulting in surface cracking. This involves transfer of electron hence effecting physical properties.

[22] **Permanent set** / After prolonged stress & relaxation, the left deformation is known as permanent set.

[23] **Permeability** / The rate of gas flow through rubber expressed in cubic centimetre per second.

[24] **Post cure** / A second step in vulcanization to remove decomposition product.

[25] **Shrinkage** / It occurs during moulding. It decreases seal volume.

[26] **Thermal expansion** / Linear or volumetric expansion caused by temperature increase.

[27] **Vacuum** / Negative atmospheric pressure.

[28] **Viscosity** / Resistance to flow.

[29] **Volume** / change Change in the size of specimen expressed as % of original volume.

[30] **Vulcanization** / Chemically induced cross linking of polymer chains This converts basic visco-elastic material into three dimensional network of flexible elastomeric chain material.



M. K. Marketing

Authorised Importer & Distributor of Rubber, Rubber Chemicals & Peroxides

AkzoNobel

AKZO NOBEL (I) LTD -ORGANIC PEROXIDES

PERKADOX BC 40 BDPD (DCP 40)
PERKADOX BC -FF (DCP 98)
PERKADOX 14-40 BPD
PERKADOX PD 50 SPS
TRIGONOX 101

Elkem
A Bluestar Company

ELKEM SILICONES -SILICONE RUBBER

GENERAL PURPOSE
EXTRUSION GRADES
HIGHLY TRANSPARENT FOOD GRADES
NPC GRADES & HVI

ARLANXEO
Performance Elastomers

ARLANXEO - NBR & POLYCHLOROPRENE

PERBUNAN 2845F/3445F /3945F /3965F
KRYNAC 3345F
BAYPREN -110/ 210
BAYMOD POWDERED NBR

GUJARAT FLUORO-CHEMICALS LIMITED

GUJARAT FLUORO-CHEMICALS LIMITED FLUOROELASTOMERS - FLUONOX

MOLDING /EXTRUSION CO-POLYMERS/TERPOLYMERS
PEROXIDES CURABLE GRADES
METAL BONDING GRADES

FINORNIC®
CHEMICALS (INDIA) PVT. LTD.

FINORNIC CHEMICALS INDIA PVT. LTD

NON STAINING ANTIOXIDANTS
MBI/ZMBI/MMBI/ZMMBI



GUJARAT MULTI GAS BASE CHEMICALS PVT. LTD.

RUBBER GRADES PRECIPITATED SILICA - MANSIL 175 / 175G

OTHERS

COUMARON INDENE RESIN G-90 NBR- PVC
PETROLEUM RESIN C-9 MGO KYOWAMAG 150

Passionate about Quality...

M. K. Marketing

Admin. Office : UNIT NO. 406, HILL VIEW IND. ESTATE,
BEHIND SIDDHPURA IND ESTATE,
AMRUT NAGAR, GHATKOPAR -WEST,
MUMBAI -400086.

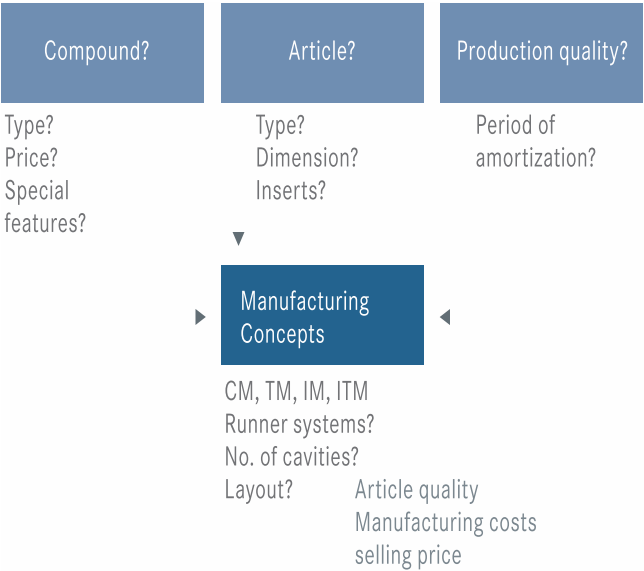
Telephone : +91-22-6188 6900-90

E mail : sales@mkmark.com / support@mkmark.com



Project Engineering

Rubber Injection Moulding



Planning a mould part production typically begins with the consideration which manufacturing concept or automation level would be ideally suited in the specific case. The type of article, the envisaged production quantity as well as raw material costs (elastomer compound) are decisive factors when taking one's choice. It is always the objective to achieve optimal article quality at minimum manufacturing costs. The comparative calculation must therefore not lack the costs for energy, maintenance, waste and the like.

BASE POLYMER (RUBBER TYPE)	MNE-MONIC	SPECIAL PROPERTIES
Natural rubber	NR	Heavy mechanical loads possible
Ethylene-propylene-diene rubber	EPDM	Water- and weather-resistant
Nitrile-butadiene rubber	NBR	Oil-resistant
Butyl rubber	IIR	Gas-tight
Fluorine rubber	FPM	Gas-tight, high general resistance
Silicone rubber	VMQ	Weather-, water-, oil and heat-resistant

Almost simultaneously the precise compound recipe is being determined. Above all, the material has to ensure technical product requirements, but also must be easily to process and affordable. It is important that the processing properties of the individual material batches do not strongly fluctuate.

As soon as an appropriate manufacturing concept and an appropriate compound recipe are found, the injection mould and the required machine can be elaborated respectively designed as second step.

After having completed all components, the exact (optimum) process control is established by way of injection tests in the course of which the fine-tuning of the injection mould is also carried out – e.g. optimization of the material distribution onto the individual mould cavities, of injection and/or venting.

Compound, mould, machine and process control eventually determine product quality, manufacturing costs and hence profitability of production. Only when these factors are optimally synchronized, a perfect result can be expected.

Snehal Shah
+91-98251 94132



Pushpak Shah
+91-92274 25802

SATYANARAYAN RUBBER AND PLASTIC INDUSTRIES

Extruded & Molded Rubber Parts



Bushes & Rubber Diaphragms, Rubber Spider,
Rubber Bellow, Butterfly Valve Seal



Rubber & PU Spider Picture



Rubber Molded Parts



Rubber to Metal Bonded Parts



Rollers



PRODUCTS

Trolley Wheels & Castor Wheels

Flexible Tyre Couplings

Synthetic Rubber Cord (Dori)

Butterfly & Pinch Valve Sleeves

Teflon Coated Diaphragms & Strips

Anti-Vibration Mountings

Nylon, Plastic and Bakelite Parts

Teflon Parts (O-Ring, Washer, Bush, Bellow etc.)

Rubber & P.V.C. Grommets

Automobile Gas-Kit Diaphragms

Victaulic Gaskets

Chevron Pickings

SINCE 1980



Rubber & PVC Grommets



Extruded Rubber Products



Trolley & Castor Wheels



Rubber Sheet



Bakelite Knobs



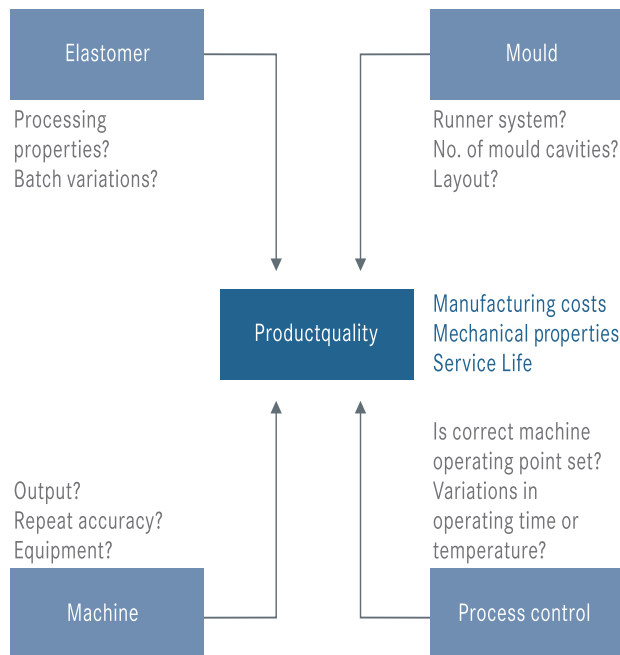
Self Adhesive Strips & Sheets



An ISO 9001:2008 Company

Plot No: 46/2-A, Amba Estate, Behind Workwell Engineers,
Near Uttam Dairy Cross Roads, Post: Sukhranagar,
Rakhial, Ahmedabad - 380021 GUJARAT INDIA
Telefax: +91-79-22742580, 22749345, 22730681
+91-9825194132 - Snehal J. Shah
+91-9227425802 - Pushpak J. Shah
Email: info@srp.co.in Website: www.srp.co.in





Our website address :
www.desma.biz

We Invite readers to visit our website and face book page

Our facebook address :
<http://www.facebook.com/DESMA.Elasomertechnik/>

WE LOVE TO HEAR INTERESTING INFORMATION FROM YOU

**Please share your Product Write-ups
with photographs, Innovations,
Research & Technical Articles,
Joint ventures & Collaborations,
and Press Releases.**

**We shall explore to publish
the same in this magazine.**

**Please send to
email info@grma.in.**

**Manufacturers and suppliers of Rubber Plastic,
PU, Teflon Parts as per drawing or samples.
Our Major clients are from Tiles and Sanitary Industry.**

TUSHAR ENTERPRISE

**19.SHYAM ESTATE-1. GATE NO 2. B/H HOF.
OPP NOVA. VILLAGE MORAIYA.
CHANGODER. Ahmedabad - 382213.**

Contact :7573800020

Email : tushar_ent@yahoo.co.in

SWASTIK

GROUP OF COMPANIES



Butyl
Bromo Butyl
Chloroprene
EPDM
Fluroelastomers
NBR
NBR PVC
Polyurethane
Silicone Rubber
SBR

PBR
Hypalon
Ready to use Compound
(FKM, HNBR)
Reclaim - (NATURAL & BUTYL)
Bonding Agent
Carbon Black - (PHILLIPS)
Resin - (CI - C9 HYDROCARBON)
Curing Agent (for Silicone)
Blowing Agent
Active Zinc Oxide C-30

Ready to use PU Compound
(Any Hardness & any colour)
Pigment
SPEB-7
Factice
Hi-tech Polymers
Rubber Chemicals
FKM RUBBER
ACM
ECO
Magnesium Oxide



SWASTIK SALES AGENCY



SWASTIK MARKETING



SWASTIK TRADELINK



IMPORTERS, DEALERS & STOCKIST OF RUBBER & RUBBER CHEMICALS

F/23, Madhavpura Market, Shahibaug Road, AHMEDABAD-4, Gujarat, INDIA.
Tele : +91-79-25621279, 25626798 • Mobile : 98240 13787, 93761 76266
Website : www.swastikgroup.info • E-mail : swastikgroup@yahoo.com



OVERVIEW OF INDUSTRIAL RUBBER ROLLERS

Suchismita Sahoo, Dr. K. Rajkumar

Indian Rubber Manufacturers Research Association

INTRODUCTION

Rubber is applied to the surface of metal core to prepare the rubber covered rolls, generally referred to as rubber rolls. It is a highly specialized area and comprises of unique methods and practices using an optimal balance of the combination of the rigidity of the metal core and elasticity of rubber. This is a highly versatile class of rubber product and finds application in almost all industrial sectors for wide variety range of purpose and machines. It can range from tiny rolls for making envelopes and movie films to giant rolls for paper making. Due to diverse and demanding applications the standardization of rubber rolls has been difficult. The current publication will primarily focus on the discussion of the various types of industrial rubber rolls.

The industrial rolls can be classified based on their application in different industries as below:

1. Paper Mill Rolls
2. Steel Mill Rolls
3. Printing Rolls
4. Tanning Industry Rolls

1. Paper Mill Rolls

The primary function of paper mill rubber rolls is to remove water from the sheet of pulp that is being converted to paper. Rubber rolls for paper industry has to satisfy multiple requirements, the specific requirements depends on the function of the individual roll. A sheet is formed on a travelling wire screen or a cylinder, dewatered under rollers, dried by steam-heated rolls, and finished by calendar rolls.

After the dewatering process the paper then passes through smoothing rolls (Steel and rubber-covered) and is picked up by the second felt blanket through a series of press rolls (rubber- covered), followed by a series of drying rolls internally heated by steam and finally the paper enters the calendar, where the finish is imparted.

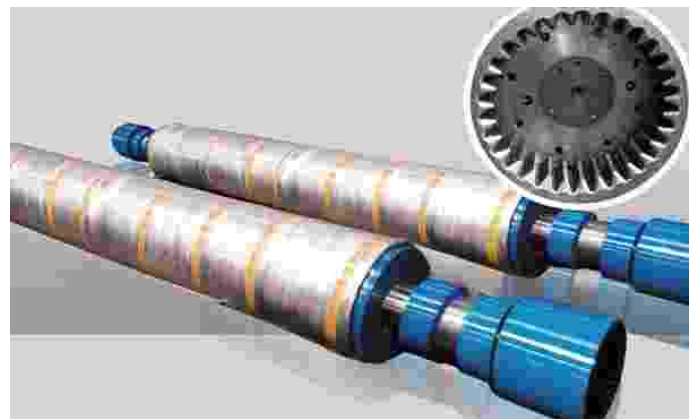
The general requirements of paper mill rolls comprises of the below properties

- High mechanical stability and good dynamic property.
- Uniform hardness
- Resistance to the chemical used in paper making (acidic and alkaline solutions)
- Resistance the temperatures likely to be encountered
- Resistance to scratching and marking

Good grinding characteristics

Spool Roll

Most of the paper industries use at least one suction roll, whose primary purpose is to draw water from the wet paper web. A suction roll consists of a perforated metal cylinder, either bronze or steel, with as wall thickness of 25-50mm. A rubber cover is applied to this perforated cylinder, and after vulcanization the rubber is drilled so that the perforations in the rubber lead into the holes in the metal shell. A suction box, 10-15cm wide, is connected to a source of low pressure and extends throughout the length of the roll on the inside. The suction roll and press roll get deflected during operation, the actual amount depending on the type of metal used, the wall thickness, the diameter and length of the roll, the pressure applied, and the speed. To ensure that a uniform line of pressure is exerted on the paper web, a camber or crown is made into the rubber surface. Thus, the rubber covers must flex and yield to overcome the basic bending or flexing of the metal core. The rubber rolls require periodic grinding to prevent rubber cover failure due to excessive creep.





PIONEER RUBBER & CHEMICAL CO
An ISO 9001:2008 Certified Company

**Our customers expect
the world from us...**



Importer & Reseller

SYNTHETIC RUBBER
NATURAL RUBBER
RUBBER CHEMICALS
BONDING AGENTS
PETROLIUM RESSINS
CARBON BLACK
& MUCH MORE

Contact : +91-22-67858585
E-mail : info@pioneerrubchem.com
website : www.pioneerrubchem.com

*For Everything you Desire
"Get Delivered"*



PIONEER RUBBER & CHEMICAL CO.

409 Solaris II, Opp. L&T Gate No.6, Saki Vihar Rd, Powai, Mumbai - 400 072.
Contact : **+91 - 22 - 67858585** (10 Lines), Fax No. : +91 - 22 - 67858500
E-mail : info@pioneerrubchem.com/pioneerrubchem@gmail.com
Website : www.pioneerrubchem.com
+91 98200 16362





It is desirable that the table rolls be as light as possible, to decrease their inertia. Usually, table rolls are made of thin-walled, lightweight seamless steel tubing covered with ebonite. They are balanced dynamically at the service speed, and the rubber cover is ground and polished to make them touch the wire evenly. The rubber compound used in table rolls is less easily wet by water than other kinds of roll surface. At high roll speed, this lower affinity cause water to be thrown off the rubber at a lower tangent. Consequently, less water is carried back up to the wire, and water is removed from the pulp sheet more rapidly and thoroughly.

To permit great pressure, paper mill press rolls are made quite heavy. The important function of the press rolls is to obtain high dehydration without damaging the quality of paper. In the stages where the paper contains much water, soft rubber rolls are used under low pressure, and the hardness of the rubber rolls and the pressure are gradually increased. It costs about 12 times more to remove a kilogram of water from paper with steam than with rubber-covered rolls. An important characteristic of rubber-covered press rolls as used in paper mills is their ability to absorb high impact loads in localized areas. Speedy recovery from deformation is also an important characteristic of rubber rolls. At each pressure through the nip between the two rolls, the rubber is deformed. However, if the rubber cover does not recover before the entire revolution of the roll is completed, additional stress is placed on the nonrecovered rubber and the result, as noted earlier, is corrugations, cracks, and ultimate failure of the rubber cover. Since paper mill rolls must be reground occasionally, the ability to furnish a smooth, unblemished or ground surface is important. Regardless of other desirable physical and chemical properties, rubber covering compounds become unsatisfactory if, under

the heat and pressure of the grinding wheel, they develop strings or bells of rubber, leaving a creep surface on the roll. Equally unsatisfactory is a rubber compound that permits the grinding wheel to pick out small piece of rubber, leaving a pockmarked or dimpled surface.

Natural rubber is the preferred polymer for paper mill roll covers. **Blends of polybutadiene and natural rubbers** also offer interesting opportunities. Some roll covers are now being made with **chloroprene rubber**. Cover stocks based on nitrile rubber are used in special cases only (e.g. for drying cylinders).

Approximately 30-40 phr zinc oxide is used for good thermal diffusion and dynamic properties. Blends of carbon black with precipitated silica are favored for obtaining higher values of elongation at break ; coupled with higher tear strength. Sulfur is used in the range of 3-5, along with an accelerator system, which enables the roll covers to be cured for the usual long periods without risk of reversion.

1. Steel Mill Rolls

Rubber rolls used in steel mills, have uniform diameter. Rubber compounds used for covering rolls that handle metal sheets and strips must be designed to **resist the cutting and tearing action of rough, sharp edges**. Considering the mechanical strength required most steel mill rolls are covered with **Polychloroprene rubber and some with NR**, in the hardness range of **45-80 Shore A**. In the rugged service of sheet steel rolling mills, oiling rollers made from nitrile rubber are used for lubrication of finished sheet metal.

Continuous electrolytic machines in steel industries use rubber rolls of three types :

- tension rolls, to pull the sheet through the line
- wringer rolls, to remove water and chemical solution from the plated surface
- guide rolls, which act as deflectors in changing the direction of travel of the sheet

To avoid discoloration from rubber stock on the tinned surface the rolls are made from styrene butadiene rubber (SBR) and chlorosulfonated polyethylene (CSPE).





LEADERS IN RUBBER SHEETING



- Natural/SBR Rubber Sheet
- Neoprene Rubber Sheet
- Nitrile Rubber Sheet
- Silicone Rubber Sheet
- Butyl Rubber Sheet
- Diaphragm Rubber Sheet
- Rubber Matting
- Rubberized Fabric
- Diamond Groove Pulley lagging Rubber Sheet

**MANUFACTURERS, SUPPLIERS & EXPORTERS OF
RUBBER SHEET**

RAVASCO *Swastik* **INDUSTRIES LLP.**

Swastik House, 159, Nagdevi Street, Mumbai – 400 003.
Tel: 022 -23400694/790 Cell: 9022842223 . E mail: rsnilesh@vsnl.net



1. Printing Rolls

The function of printing rolls is to apply ink to a selected and prepared surface at a controlled rate, the quality of printing primarily depends on the quality of the roll cover. For printing rolls the following factors has to be considered

- Strength
- Resistance to oils and solvents
- Resistance to glaze
- Hardness
- Dimensional accuracy

Strength: Printing rolls rotate at high speed, which requires high strength. Reinforcing fillers are needed to increase the strength, and since the rolls are of low hardness, the amount of such reinforcing fillers must be limited. A proper balance of reinforcing fillers and plasticizers is required. Reinforcing fillers also improve the modulus and tear strength of the compound, properties that are essential for good grinding characteristics.

Resistance to Oils and Solvents: Depending on the process of printing, the inks employed may be based on vegetable oil (letterpress), mineral oil (rotary press), or aromatic solvents. The vehicles for offsetprinting ink are composed of linseed oil and mineral oil.

Printing rolls are constantly exposed to ink during printing and are cleaned with kerosene afterward. Thus resistance to such oils and solvents is an important property.

The problem of oil/solvent resistance is intensified because today's fast drying printing inks process highly varying chemical compositions. Accordingly, the ink mixtures exert very dissimilar effects on rubber, and the roller coverings must be designed to ensure resistance to swelling from a series of chemical substances. If the tendency to swell caused by these substances is not stringently limited, the dimensions as well as the hardness of the roller will be seriously affected. Moreover, a swollen rubber roll may result in an extensively intensive contact with printing plate, thereby causing damage to the roll surface. Nitrile

rubber is used mainly, with a large amount of plasticizers, since hardness required is low (20-40 Shore A). Since most plasticizers are easily extracted by the solvent or ink, with consequent decrease in volume, non-extractable plasticizers should be selected.

Resistance to Glaze

Offset printing inks contain phenol-alkyd resin to impart gloss and are mostly of the quick-drying type, suitable for use with high speed printing machines. Linseed oil based inks containing metallic soaps as dryers tend to form a dried, oxidized film of ink on the rubber rolls, which is known as glazing. Glazed rubber rolls become slippery and less effective for the transfer of ink; subsequently the glazed film may develop cracks and pit marks on the rubber surface.

Hardness

The hardness of rubber printing rolls greatly affects their efficiency in spreading ink, in accommodating ink transfer, and in ensuring the ability of the machine to absorb shocks. Thus hardness is one of the most important factors.

Dimensional Accuracy

For a correct and uniform ink transfer, smooth interaction of different rollers with extremely narrow tolerances is of importance which is of high importance for rubber inking rollers, which must maintain an exact clearance between the distributor roller and the impression cylinder. Any minor change in diameter would result in a weak contact resulting in an excessively light or bold type face.

Tanning Industry Rolls

Non – staining rubber compounds is the key requirement of the tanning industry rolls. Natural rubber is generally used for degreasing, buffing, and splitting machine rolls, and nitrile rubber finds application in fleshing and dehairing machines rolls. The hardness of splitting and fleshing machine roll covers usually is 45-50 Shore A, while those of the buffing and degreasing machines are in the range of 60-70 shore A. The roll covers used on fleshing machines to separate the flesh from leather are required to satisfy the critical parameters like tensile strength, compression set, tear propagation strength, and resistance to swelling.

**The products we distribute talk for themselves
And are already known the world over**



Consignment / Authorised Agents of :

M/s. NOCIL Limited.

M/s. Pidilite Industries Ltd.

M/s. Gandhar Oil Refinery India Ltd.

M/s. Mc Lube Asia Pvt. Ltd.

M/s. LORD India Chemical Products Pvt. Ltd.

M/s. Gujarat Reclaim & Rubber Products Ltd.

M/s. Hindustan Chemical Company.

M/s. Good Luck Carbon Pvt. Ltd.

Our Product Range :

- ★ NOCIL Rubber Processing Chemicals
- ★ Carbon Black
- ★ Natural Rubber
- ★ Reclaim Rubber
- ★ Latex (60% DRC)
- ★ Chemlok (Adhesive)
- ★ Stearic Acid
- ★ Zinc Oxide
- ★ Sulphur Powder
- ★ Pine Tar
- ★ Wood Rasin
- ★ Silicon Emulsion
- ★ ★ Crumb Rubber
- ★ MgO (Magnesium Oxide)
- ★ Peprizal - 7

- ★ Mc Lube (Mould Release)
- ★ Factic
- ★ Insoluble Sulphur
- ★ Paraffin Wax
- ★ Precipitated Silica (Light)
- ★ Calcum Carbonate
- ★ D.E.G / D.O.P.
- ★ D.G.P.
- ★ Foam Stailizer
- ★ Brown Ebonite Dust
- ★ Pidilite Organic Pigment Powder & Pest
- ★ Rubber Processing Oils (Aeromatic / Naphthenic / Paraffinic Oil)
- ★ Hydraulic / Gear Oil,
- ★ Grease
- ★ White Petroleum Helly

**Dealers in : Carbon Black, Natural &
Synthetic Rubber, Latex & rubber Chemicals.**

Sangee
SALES

404, Aarohi Complex, Opp.. Ganesh Plaza, Navrangpura Post Office, Ahmedabad - 380 009
Tel : +91 79 2656 8783, 2656 4833, 2640 2313 Fax : +91 79 2644 9820 E- mail : sangeead1@gmail.com
Mobile +91 98250 49625 (Virendra Shah) +91 98250 49615 (Hemang Shah)

www.sangeesales.com

Rubber Contracts, Tyre Margins Expand

By Ruma Dubey
of www.sptulsian.com

Rubber farmers in Thailand, one of the world's biggest exporters of natural rubber, threatened on Friday (Nov 10) to protest in the capital Bangkok if the military government does not help to prop up falling prices of the commodity. Their cost of production is higher than the selling price of rubber. Thailand rubber prices have plummeted to about 48 baht, a fourth of the levels seen five years ago. In India, on 15 th November, rubber prices hit a new 52-week low.

But what is very unusual this time around is that in 2018, we have been witnessing the increasing spread between the rubber prices in India and that quoted in Bangkok. As at 20 th Nov'17, rubber price in India was at Rs.125/kg while that in Bangkok was at Rs.101/kg. Little wonder then that tyre companies are grinning ear-to-ear.

Under the current circumstances, naturally they will import the cheaper rubber but even in India, the prices are at a year low. This means stocking would give them a price advantage, be it procured from India or imported.

Price of rubber has a direct impact in tyre companies as 40-50% of their cost is on account of this main raw material. One should expect margins to spurt. But wait, it might be a trailblazing runaway jump as the lower price of rubber could be offset to some extent by the higher crude price. Crude derivatives are also inputs for tyre companies and that makes up for around 25% of the costs. But because the slump in rubber price is much higher than the rise in crude price, tyre companies will continue to have an advantage.

Rubber is a cyclical trade. Rubber tree saplings take 7-10 years to mature after which a sticky, cream-like sap is used to produce tyres and

other goods. Those in the industry say that major rubber producers will soon be unable to supply sufficient quantities of rubber to tyre factories in China and other importing countries because rubber saplings have not reached the right age for harvesting. Thailand, along with Indonesia and Malaysia, produce nearly 70% of the world's natural rubber.

And the best news is that – prices are expected to slump further. This is based on the fact that in coming days, supply of rubber will go up as October to January is the time when peak tapping happens. Over and above all this, rubber suppliers were sitting on stocks, holding on to it, expecting prices to go up and with their calculations going for a toss, this supply of old stock is also coming into the market now. 90% of natural rubber in India comes from Kerala and while tyre makers rejoice, rubber cultivators are crying, urging the Govt to hike import duties, with some even demanding a complete ban on rubber imports.

All this translates into? Price of rubber is not going to go up in a hurry. We will witness a buyers market and this means good times for tyre makers in the coming quarter. Look at Ceat. In Q2FY18, the company's EBITDA was at Rs.181 crore, up 211% (QoQ) while EBITDA margins rose to 11.9% v/s 4% in previous quarter. Its raw material cost has come down 16% (QoQ). Ditto for Balkrishna Industries, whose raw material cost was sequentially down just a little over 1%. JK





Tyre too reported a 16% drop in raw material prices on QoQ while that of TVS Srichakra was down 11%, Apollo Tyres was down 9% and MRF was down 6%.

In Q2FY18, the raw material cost eats away around 60% of MRF's total sales, Apollo at 49%, Balkrishna at 45%, Ceat at 53%, JK Tyre at 56% and TVS Shrichakra at 54%. If price of rubber remains around the same levels or climbs down further, the margins of tyre companies are expected to see a straight improvement of 10-13%. To boost volumes, companies might lower rates but they are sure to retain the lion's share of the margin for themselves. H2FY18 could see direct benefits of the same.

Along with the lower rubber price, with the auto sector also doing pretty good, weak demand in China and the Govt bringing back the anti-dumping duty to fend off cheaper Chinese tyres has made the overall outlook for the tyre sector robust. Yes, the road ahead for tyre companies currently looks good, with a beautiful vista on the horizon.



INVITATION



**India
International
Rubber
Show
2017**

15 16 17

December - 2017

MAHATMA MANDIR

GANDHINAGAR, GUJARAT (INDIA)

Time

10.00 A.M to 6.00 P.M

SPONSOR





**RUBBER MANUFACTURERS'
WELFARE ASSOCIATION**

(Formerly Gujarat Rubber Manufacturers Association)



**AAKAR
EXHIBITION**

AAKAR EXHIBITION PVT. LTD.

Brief on NETAP

- Ruchit Patel
Netap (TLSU), Gujarat
9974013210

NETAP is “National Employability through Apprenticeship Program” from “TeamLease™ Skills University” which is a Public Private Partnership (PPP) with “All India Council for Technical Education” (AICTE), “Confederation of Indian Industry” (CII) and “National Skill Development Corporation” (NSDC) and aims at enhancing employability by overcoming the existing challenges faced by Corporates/Industries in implementing “Apprenticeship Act” of 1961

NETAP is registered under the “National Employability Enhancement Mission” (NEEM) of AICTE (F.No 37-3/Legal/AICTE/2013) which is the only governing law for this scheme (attached with the mail) and it overcomes some of the major challenges faced by corporate in India for deploying apprentice/trainees.

Benefits to Corporate:

1. This will not be an employment contract or a labour contract hence the law pertaining to labour/employment is not applicable.
2. Stipends paid do not attract any statutory deduction/payment obligation on the part of the corporate/industry (No PF, No ESIC etc.)
3. Stipends paid qualify as CSR spend
4. Clear legal structure to take candidates for a test drive with no obligation to hire
5. Training period as low as 3 months to 36 months as per your company/industry's policy
6. Single window for all national compliance
7. Building a pipeline for bottom of the pyramid hiring
8. Possible lower attrition given apprenticeship credit and degree connectivity

Eligibility of NEEM Trainee

1. Age: 16 Years – 40 Years
2. Qualification: Technically 10th Class
3. Experience: Should not be employed at the time of registration

Key Points:

1. This is not Mandatory for corporate
2. It is not a substitute to Apprentice Ship Act 1961
3. Stipends are benchmarked to the minimum wage act of the state of unskilled category (however companies who wish to pay more can do so).

ADVERTISEMENT INDEX

Sr. No.	Company Name	Page No.
1	Kloeckner DESMA Machinery Pvt. Ltd.	Front Cover
2	Bhavik Enterprise	Front Cover Inside
3	Lead Reclaim Rubber	01
4	Dynafluon	03
5	Deeva Traders	05
6	IIRS 2017	07
7	Madhu Silica Pvt. Ltd.	19
8	Ashutosh Rubber Pvt. Ltd.	21
	M.K. Marketing	23
9	Satyanarayan Rubber And Plastic Industries	25
10	Tushar Enterprise	26
11	Swastik Group of Industries	27
12	Pioneer Rubber & Chemical Co.	29
13	Ravasco Swastik Industries LLP	31
14	Sangee Sales	33
15	Poly Rubb Industries	37
16	Raj Fabricator	38
17	Super Waudite Jointings Pvt. Ltd.	38
18	Sanghvi Sales Corporation.	38
19	Hi - Tech Elastomers Ltd.	39
20	Eeshan Automation Pvt. Ltd.	Back Cover Inside
21	Boron Rubber India	Back Cover
32		

EPDM, Neoprene and Nitrile rubber extruded products



Silicone rubber extruded products



Poly Rubb Industries

**Professionals In Polymer
Application Technology**

Plot No. 82/ 4 & 5, Shed No. K1/7 & 8,
Lane No. 7, Phase-1,
B/h Kotak Mahindra Bank Ltd,
Phase-1, GIDC, Vatva,
Ahmedabad - 382445.
Gujarat, INDIA
M : +91 98250 22302
E mail : info@polyelastomer.com
www.polyrubb.com

SUBSCRIPTION

- For RMWA Journal

The
RMWA
Journal

Subscription Coupon	
Annual Subscription Rate Card	
1 Year	₹ 360/-
2 Year	₹ 700/-

Yes, I/We Want to subscribe "RMWA" Fill in BLOCK LETTERS

Name : _____

Designation : _____

Company Name : _____

Address : _____

City : _____ State : _____

Country : _____ Pin Code : _____

Tel. : _____ Fax : _____

Mobile : _____

Email : _____

DD / Cheque No : _____

Drawn on Bank : _____

Date : _____ for ₹ : _____ in favour of
"RUBBER MANUFACTURERS' WELFARE ASSOCIATION"
payable at Ahmedabad or Cash / Cheque / DD may be deposited
to any branch of Indian Bank and copy should be mailed /
faxed to the Association.

NEFT Details : A/c No.6281877317
A/c.Name : Rubber Manufacturers' Welfare Association
Bank Name : Indian Bank
Branch : Drive in Ahmedabad
IFSC Code : IDIB000D051

www.no-voice.com

NO-VOICE Fan

NO-VOICE RAJ FABRICATOR

Odhav, Ahmedabad, Gujarat (India)
 +91 98250 44864
 rajfabricatorsindia@gmail.com
 www.no-voice.com

Super Waudite Jointings Pvt. Ltd.

Sale of Rubber Mixing Mill, Rubber Mixing Mill

Make: Richard Crudda Size : 16" x 42"

Condition : Complete Working Condition
with 60 HP Motor & Reduction Gears, Starter etc.,

For more details contact : Super Waudite Jointings Pvt. Ltd.

G-1, Shyam Sunder Apprt., 6, Laxmi Society,
Navrangpura, Ahmedabad – 380 006.

Contact Person : 1. Mr. P.J.Pandya(M) 9825005031
2. Dr.H.A.Vyas(M) 9825007050
3. Office Landline : 26564699/26560744

Rubber Mould Labels Heat Transfer Labels Tyre Patch Labels

Better Quality & Prompt delivery

Contact : Jignesh Sanghavi
M. 9374978581, 9374978585
SANGHAVI SALES CORPORATION
163, Ghasiram Street, Sarangpur, Ahmedabad-380001. India.
Email: sanghavisales@gmail.com



LARGE SIZE RUBBER PRODUCTS



Hi-tech Elastomers Ltd. is a well established company in the field of rubber manufacturing products and holds an eminent position as one of the largest rubber product manufacturing company in India.

CAPABILITY:

Hi-tech manufactures large size diaphragms, rubber components conforming to any shape & size.

Hi-tech has manufacturing capability of producing 5 mtr H x 8 mtr W x 12 mtr L product weighing up-to 20 tonnes per unit.

QUALITY ASSURANCE:

In-house rubber moulding facility, testing laboratory with latest equipment.

We offer quality inspections from major engineering consultants/third party inspection agencies like Lloyds, BVIS, TUV, IRS, LRS, SGS, ABS, DNV GL for all our products.

MANUFACTURING PLANT – I

798, Sola-Kalol Highway, Rakanpur, Dist. Gandhinagar, Gujarat, INDIA-384002

Phone/Fax: +91-2764 286010/ 286806/ 268112

Website: www.hitechelastomers.com

Email: sales@hitechelastomers.com

MANUFACTURING PLANT – II

227, Santej-Vadsar Road, Santej, Dist. Gandhinagar, Gujarat, INDIA-384004

Phone/Fax: +91-2764 286516/17

Website: www.hitechelastomers.com

Email: sales@hitechelastomers.com

INTERNATIONAL TIE-UPS:

HI-TECH MARINE SOLUTIONS — U.S.A.

HI-TECH MARINE FENDERS — U.K.

WHAT WE DO



Book Advertisement

- For RMWA Journal

Advertisement Tariff

Sr.No.	Type	Full Year Package Amount in Rs.	Single Package Amount in RS.	Total No. of Insertions per year
1	Front Cover Inside	25000/-		4
2	Back Cover Inside	25000/-		4
3	Back Cover of the Magazine	30000/-		4
4	Colour Pages(Full)	20000/-		4
5	Colour Pages(Full)		6000/-	1
6	Colour Pages(Half)		4000/-	1
7	Colour Pages(Quarter)		3000/-	1
8	Classified Advt		1000/-	1

: NOTE :

Designs should be in CDR / PDF format .
Priority will be on first cum first basis on the availability of page.

Full Page	:	21 cm x 28 cm
Half Page	:	19 cm x 12 cm
Quarter Page	:	9.25cm x 28 cm
Classified	:	9 cm x 6.5cm

Bank Details : Cheque in Favour of Rubber Manufacturers' Welfare Association

Address : B/413, Rudra Arcade, Nr.Helmet Circle, Memnagar, Abad – 380052

Contact : 07927410226 Email : info@grma.in grma.rmwa@gmail.com

NEFT Details : A/c No.6281877317 / A/c.Name : Rubber Manufacturers' Welfare Association

Bank Name : Indian Bank **Branch :** Drive in Ahmedabad **IFS Code :** IDIB000D051

Fees : Entrance Fees Rs. 1,000/-

MEMBERSHIP APPLICATION

Categories of Membership :	Yearly Membership	Life Membership
(1) Ordinary Member (Manufacturer)	Rs. 1000/- Yearly Fee	Rs. 7,500/-
(2) Technical Member	Rs. 1000/- Yearly Fee	Rs. 7,500/-
(3) Associate Member	Rs. 1500/- Yearly Fee	Rs. 10,000/-
(4) Patron Membership	Rs. 1,11,000 /-	

**BECOME
A
MEMBER**

Automatic Batch Weighing Systems

**EESHAAN
AUTOMATION
PVT LTD.**



The Automatic Batch Weighing system is useful for weighing the different ingredients of a batch process.

The system is useful for :

INDUSTRIES

- ◆ Rubber
- ◆ PVC / Plastic
- ◆ Paints
- ◆ Pharma
- ◆ Food Processing
- ◆ Glass
- ◆ Cement / Ceramic
- ◆ Chemicals

MATERIALS

- ◆ Powders
- ◆ Granules
- ◆ Pellets
- ◆ Flakes
- ◆ Oils
- ◆ Esters
- ◆ Viscous liquids

- ◆ Repeatability,
- ◆ Reliability,
- ◆ Accuracy,
- ◆ Programmability,
- ◆ Display & Annunciation,
- ◆ Recipe Management.



EESHAAN AUTOMATION PVT LTD.

Facility: 89, 90, 91, Rajdeep Industrial Estate, Bibi Talav, Vatva, Ahmedabad 382440.

Communication : Tel: 91 79 25891296, M: 9227972801/2/3/5/6/10,

Email : ykahate@yahoo.co.in / info@eeshaan.co.in / ykahate@eeshaan.co.in

Website : www.eeshaanautomation.com / www.eeshaan.net / www.rubberrollers.asia



BORON RUBBERS INDIA

**HOUSE
OF RUBBER
SHEETING**

**PLATE FINISH
ROTOCURE FINISH
CUSTOM DIMENSIONS
TEXTURED IMPRESSIONS
CLOTH / NYLON INSERTIONS**

TYPES OF RUBBER SHEETS AVAILABLE

COMMERCIAL	Flange Gasket Packing to avoid air, water & inorganic chemical leakages.
NR / SBR	Skirt board, bridge bearing, high pressure gasket packing, sand / shot blasting, Shock absorber, shelf liner, anti-abrasion lining.
NEOPRENE	Sealing applications in construction sites & sound studios, used as gasket to avoid leakages of oil, heat, steam, water, air, acid & alkali. Used in marine, flame retardant, inorganic chemical resistant.
NITRILE	Sealing, gasket & packing to avoid leakages from oil, solvent, petroleum based fluids, lubricating oil, transformer fluid & very low permeability to gases.
EPDM	Outdoor applications like weather strips, drinking water applications, rain water sealing, protection against sunlight & heat gaining as a roof membrane, acid resistance, liner in pulverizing system.
BUTYL	Chemical tank lining, pharmaceutical stoppers, acid protective clothing.
DIAPHRAGM	1 to many ply insertion rolls used in control valves, regulators, pumps for oil, LPG & solvents resistance applications.

RUBBER MATS

ELECTRICAL INSULATION MATS (AS PER IS 15652)

ANTI SKID MATS / FLOOR MATS

AGRICULTURAL / HORSE STABLE MATS / COW MATS

RUBBERIZED FABRIC / COATED FABRICS

TANK LINING RUBBER SHEETS (VULCANIZED / UNVULCANIZED)

SPORTS FLOORINGS / PLAYGROUND FLOORING

BORON RUBBERS INDIA HAS CUSTOM DESIGNED THESE RUBBER SHEETS & ROLLS TO MEET MANY APPLICATIONS ON SEVERAL DIFFERENT LEVELS WHILE MAINTAINING A VERY ECONOMICAL BASIS FOR END-USER.



www.boronrubbersindia.com | sales@boronrubbersindia.com | +91-278-244-5049 | 52, GIDC, Chitra, Opp. Post Office, Bhavnagar - 364004 (INDIA)

If courier not delivered send to : Rubber Manufacturers' Welfare Association B/413, Rudra Arcade, Nr.Helmet Circle, Memnagar, Abad – 380052