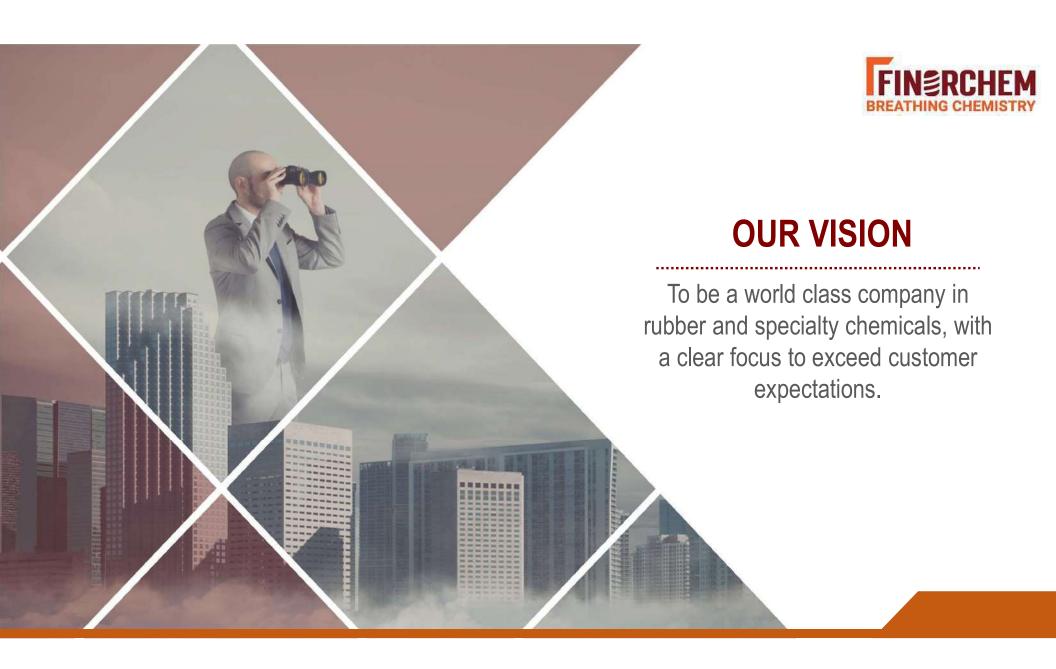








CORPORATE INTRODUCTION



ACMECHEM LIMITED







We manufacture
Fine and
Performance Rubber
chemicals



Head quartered in Kolkata, India



Commenced in 1994



Company type-Public Limited



Founder – Mr. Narain Holani (Chemical Engineer, BITS Pilani, alumnus), having about 4 decades of industry experience, rubber & specialty chemicals industry specialist.



Number of manufacturing facilities – 1 @ G.I.D.C Panoli, District Bharuch, Gujarat India.

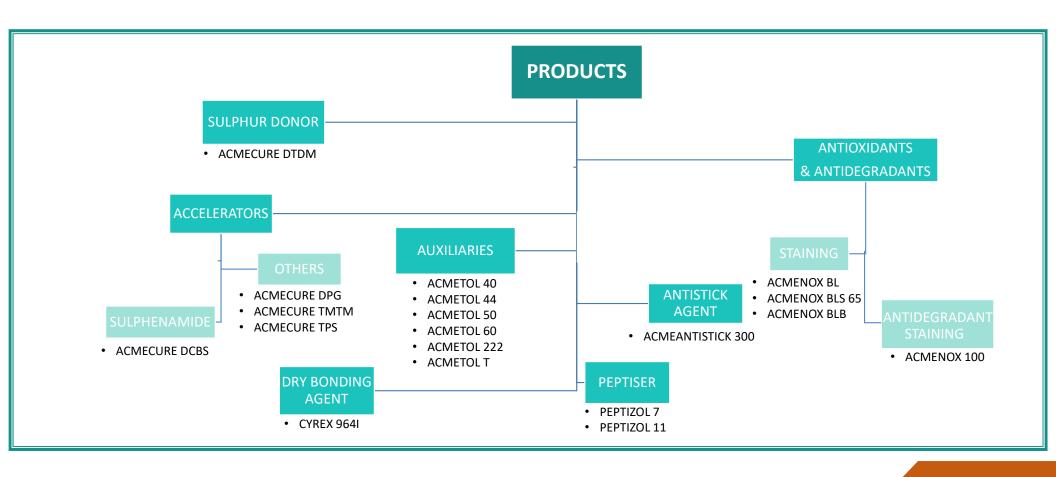
Total Capacity - 15000 MT



Acmechem Ltd. is IATF 16949 :2016, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018. certified company.



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GROUP	CHEMICAL NAME	CAS NO.	COMPOSITION	MTPA (Current)
	Acmenox 100	74-31-7	Mixture of Diaryl Para-Phenylene Diamine	1800
	Acmenox BL/BLN	68412-48-6	Condensation product of Diphenyl amine and acetone	
ANTIOXIDANTS	Acmenox BLB	0013333-86-4 68412-48-6	Blend of Acmenox BL and Carbon	3600
	Acmenox BLS-50/65/75	009003-79-6 68412-48-6	Blend of Acmenox BL and Silica	





- Table 1					
	GROUP	CHEMICAL NAME	CAS NO.	COMPOSITION	MTPA (Current)
		Peptizol 7 (Powder/pellets)	133-49-3	Mixture of Penta chloro thio phenol (PCTP) with activator, dedusting agents and Kaoline	
	PEPTISERS	Peptizol 11 (Powder/pellets)	135-57-9	Mixture of Di benzamido diphenyl disulphide (DBD) with activator, dedusting agents and Kaoline	3600
		Peptizol 11 (G)/Peptizol 11 (R)	135-57-9	Mixture of Di benzamido diphenyl disulphide (DBD) with activator, binder and Kaoline	



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THE RESIDENCE				
GROUP	CHEMICAL NAME	CAS NO.	COMPOSITION	MTPA
P. P. C. S.	Acmetol 50/Acmetol T	NA	Zinc salt of unsaturated fatty acid	
Ĭ	Acmetol 44	NA	Mixture of Zinc salt of fatty acid and alkali soap	
	Acmetol 60	NA	Mixture Zinc soaps of high molecular rubber compatible carbonic soap	
	Acmetol 222	NA	Di-stearyl phthalate PentaEryhritol Ester I & II	
	Acmetol EF 44	NA	Blend of fatty acid derivatives (predominantly zinc soaps)	
PROCESSING AIDS	Acmetol JV46F	NA	Blend of fatty acid derivatives	3600
	Acmetol ZB49	NA	Blend of fatty acid derivatives	
	Acmetol 276	NA	Blend of fatty acid zinc soaps of predominantly aliphatic nature	
	Acmetol 254	NA	Compound of fatty acid amides and amino acid derivatives	
	Acmetol 16	NA	Mixture of fatty acid soaps, predominantly calcium	
	Acmetol 42	NA	Blend of fatty acid derivatives	
	Acmetol 1105	NA	Combination of metal soaps and aromatic disulphide	





GROUP	CHEMICAL NAME	CAS NO.	COMPOSITION	MTPA	
RUBBER ADHESIVE	Cyrez 964I / ACMEBOND HMMM (65% & 75%)	0009011-05-6	Blend of silica & Hexa Methoxy Methyl melamine	1800	
ANTI STICK AGENT	Acmeantistick- 100/200/300/400	001392-7-77-0	Combination of inorganic fillers, active substance and tensides	1800	
ACCELERATOR	Acmecure TP/S	6990-43-8	Zinc dialkyl dithiophosphate bound to silica	1000	

ADVANTAGE TO THE CUSTOMER



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Tried and tested reliable partner across the globe for consistency in quality & 100% on time delivery



A robust & well diversified supply chain system to ensure availability of product for customer



State of the art manufacturing facilities, with modern equipment for automation and quality systems.



Energy conservation, reduction of wastages, conservation of natural resources.



Customer's aspirations relating to the products and feedback are constantly asked for, thereby new range of products are introduced



We are embarking upon ZLD for reduction of effluent, water conservation.



Location Advantage – Gujarat
Highly Industrialized state ensures
easy availability of skilled
manpower, machinery & Raw
Material



We are complying with necessary SVHC, RoHS, PAH and other international standards.

MERCHEM LIMITED



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Acmechem acquired
Merchem Limited –
another well known
Rubber chemical
manufacturer in 2019



Besides adding production capacities this acquisition will help Acmechem expand it's basket of product offerings to our customers



Total combined capacity after
Merchem acquisition is **50,000 MT** and number of manufacturing locations is 2



Merchem plants restarted commercial operations in **2020**



In 2022 the merger of Acmechem & Merchem was completed and the merged entity was rechristened as Finorchem Limited



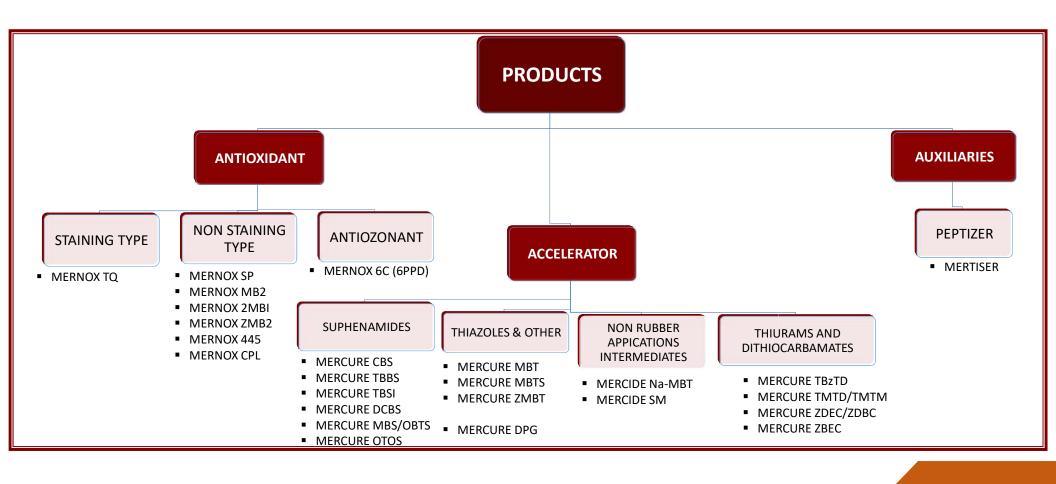
Current turnover of Finorchem Limited is

- ~ INR 700 Crs.
- ~ USD 85 million





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	GROUP	PRODUCT	CAS NO.	CHEMICAL NAME	MTPA (Current)
		Mercure CBS	95-33-0	N-Cyclohexyl-2-Benzothiazole Sulphenamide	2400
		Mercure TBSI	155-04-4	N-Tert-Butyl-2-Benzothiazole-sulfenimide	1000
		Mercure MBS	102-77-2	N,N'-Oxy-Di-Ethylene Benzothiazole Sulphenamide	1400
		Mercure MBT	149-30-4	2-Mercaptobenzothiazole	3600
7	Mercure (Mercure MBTS	120-78-5	Dibenzothiazyl disulphide	1800
		Mercure TBBS	95-31-8	N-Tert-Butyl-2-Benzothiazole Sulphenamide	2400
		Mercure OTOS	13752-51-7	Thiocarbamyl Sulfenamide	500
		Mercure DCBS	4979-32-2	N-N Dicyclohexyl benzothiazyl sulphenamide	1800
		Mercure TBzTD	10591-85-2	Tetra Benzyl Thiuram Disulphide	1000



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GROUP	PRODUCT	CAS NO.	CHEMICAL NAME	MTPA (Current)
ANTIOXIDANTS/ ANTIOZONANTS Mernox MB1 Mernox MB2 Mernox ZMB2	Mercure SP	61788-44-1	Mixture of Styrenated Phenol	1000
	Mernox TQ/TQ (HPG)	26780-96-1	1,2-Dihydro-2,2,4-trimethyl quinoline, polymerized	8000
	Mernox MBI	583-39-1	2-Mercapto Benzimidazole	500
	Mernox MB2	53988-10-6	(4,5) – Methyl – 2 – Mercapto Benzimidazole	500
	Mernox ZMB2	61617-00-3	Zinc Salt of 4 and 5-Methyl-2-Mercapto Benzimidazole	500
	Mernox 6C (6PPD)	793-24-8	N-1,3-dimethyl butyl-N'phenyl-paraphenylenediamine	10000

THIAZOLE & SULPHENAMIDE PLANT



- High pressure Autoclave facility using Aniline, CS2 and Sulphur to produce MBT.
- MBT is further taken for Oxidative condensation with respective Amines to produce Sulphenamides





6PPD PLANT



- Facility with three
 hydrogenators with total
 name plate capacity of
 10,000 TPA. Product in
 pastilles form.
- High Purity product.
- Assay > 99 % by GC method.





TMQ ANTIOXIDANT PLANT



- ► TMQ New manufacturing facility with capacity of 8000 MT/Year
- ► High Dimer content
- Low monomer
- ► Low BIS Aniline (impurities)





RESIN PLANT

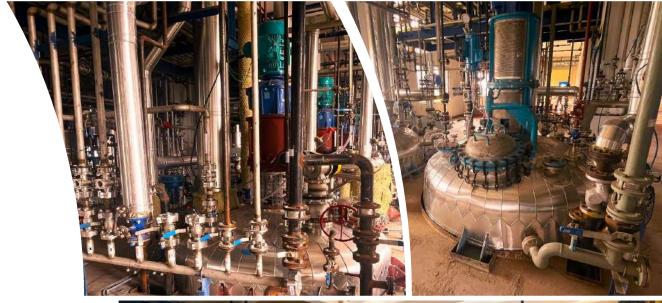
Resin plant is equipped with 5 different streams as per nature of products.

- Stream 1 Phenolic Resin
- Stream 2 Tackifier Resin
- Stream 3 Resorcinol Resin
- Stream 4 PAMS Resin
- Stream 5 Viscous Liquid Resin





RESIN PLANT: REACTORS





RESIN PLANT: REACTORS











PRODUCT BASKET (RESIN & SPECIALITY PRODUCTS)

TACKIFIER RESINS

- **⊘ FINOREX 1068**
- **⊘ FINOREX 1068H**

SUPER TACKIFIER RESINS

- **⊘ FINOREX KR 140**
- **⊙ FINOREX TR 140**

REINFORCING RESINS

- O FINOREX PN 160B
- **⊘ FINOREX RR 95**
- **⊘** FINOREX RR 110

CURING RESINS

⊘ FINOREX PB 1045

TREAD ENHANCEMENT RESIN (TEA)

CUT & CHIP RESISTANT RESIN

⊘ FINOREX CCR 120

BONDING RESIN

- O RF RESIN
 - **⊘FINOREX B18S**
 - OFINOREX B19S.

- O PRF RESIN
 - @FINOREX BPRF.

DRY BONDING AGENT

- **⊘HMMM** 65%
- **⊙HMMM 72%**
- **⊘**HMT

RESORCINOL DISPERSION

- ⊘ RESORCINOL STEARIC BLEND
 ⊘ FINOREX RSA

COUPLING AGENT

⊙FINOSIL 69 ⊙FINOSIL 266

SILICA DISPERSANT FOR RUBBER

- @ACMETOL JV46F.

REVERSION RESISTANCE CHEMICALS

⊘FINOLINK 900 ⊘FINOLINK BDZTH

TECHNOLOGY INNOVATION CENTRE



TIC was established at Panoli to meet the upcoming requirements in the Rubber Industries. This consists of:



R&D Synthesis Lab

☐ To develop new sustainable chemicals supporting rubber & allied Industries for import substitution.



Analytical Development Lab

 To characterize the molecules developed in the R&D Lab.



Product Application Centre

☐ To evaluate the developed chemicals in the rubber compound for its rheological and physical properties.



Pilot Plant

☐ To scale up the process developed by the R&D and to manufacture the material in on a pilot scale production prior to commercial production.



R&D SYNTHESIS LAB







ANALYTICAL DEVELOPMENT LAB



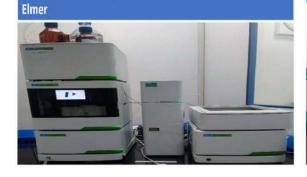




Fourier-Transform Infrared Spectroscopy (FTIR)
Perkin Elmer Spectrum Two



High performance liquid chromatography (LC-300) Perkin



Gas Chromatography (Clarus-590) Perkin Elmer



UV-Vis Spectrophotometer lambda-365+ Perkin Elmer



Size Exclusion Chromatography (SEC)

GPC For Molecular weight Determination of Resin



ANALYTICAL DEVELOPMENT LAB



Softening point C&B Mettler



Potentiometry titrator



Softening point R&B



Karl Fischer Titrator



Melting Point apparatus





RUBBER APPLICATION CENTRE

Mixing:

- **Banbury Mixer**
- Two Roll mill
- **Curing Press**

Demattia Flexometer

Flex-Fatigue Test:

- Fatigue to failure test
- Goodrich Flexometer
- Temperature & Humidity Chamber

Process Testing:

- Premier RPA- ALPHA
- **Premier Mooney Viscometer**
- **PICMA Tack Tester**

Adhesion Testing:

- Fabric adhesion
- Steal Cord Adhesion
- Bead Wire Adhesion

Product Testing:

- Universal Testing Machine (Zwick)
- Weighing balance with Densikit
- **DIN Abrader**
- **Impact Resilience Tester**
- **Durometer-Shore A**
- Compression set & Tension Set

Ageing Facilities:

- Box air ageing Oven
- Multi cell air ageing Oven
- Temperature & Humidity Chamber
- Salt ageing jar

EQUIPMENT FOR MIXING & CURING



Banbury Mixer- 1.6L: BAINITE





Curing Press : SANTEC



FINSRCHEM BREATHING CHEMISTRY

Premier RPA



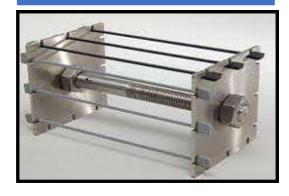
Hardness Tester



Mooney Viscometer



Tension SET



Picma Tack Tester



Compression SET





Universal Testing Machine Zwick



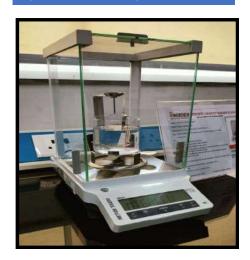
DIN Abrader



Impact Resilience Tester



Specific Gravity Balance



FINSRCHEM BREATHING CHEMISTRY

FTFT





Demattia Flexometer









EQUIPMENT FOR AGEING



Temperature & Humidity Chamber

Box Air Ageing Oven



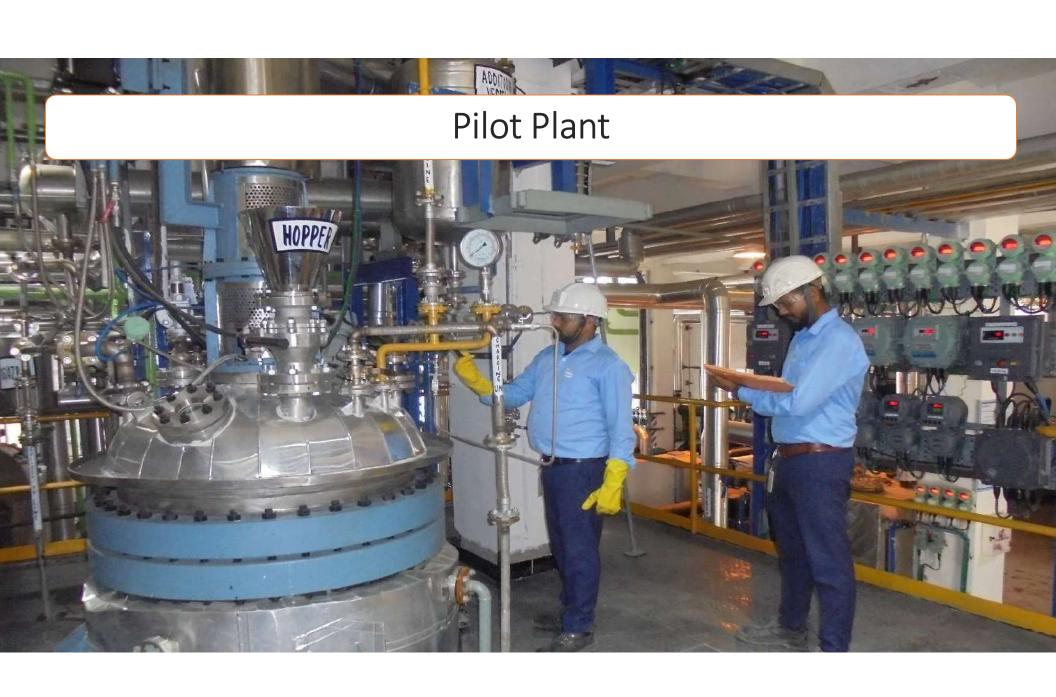
Salt ageing Jar



Multi-cell air ageing Oven













FINORCHEM CORE TEAM



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Director – Marketing & Technical Services

Mr. Kishor Katkar

Ex- Bayer/Lanxess & ISRL

Executive Director – Manufacturing & Projects

Mr. RB Vishwanath

Merchem (2003)

Director - QA/QC

Mr. B Jayamani

Ex - MRF

Director - R&D

Dr. Raj Durairaj

Ex - Indspec

QUALITY ASSURANCE



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We are committed to Total
Customer Satisfaction through
manufacturing of quality
products and consistency in
quality & services.

Our QA Laboratory operates round the clock and has developed a Quality Assurance approach based on clear target of Zero defect.

Continual improvement of quality management system conforming to IATF 16949 :2016, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018.

QA team is manned by qualified, well experienced & trained staff handling the responsibility of achieving Continuous Quality Improvement Goals.

SUSTAINABILITY INITIATIVES

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Improvement in Production Process to reduce effluent quantity and quality in production of Accelerators. We are using Soyabean oil as anti dusting agent for TBBS. Currently we use about 8 to 10 % sustainable renewable material in the products.

Energy efficient
agitation systems
are incepted to
improve the reaction
efficiencies and
cycle time.
Implemented Steam
Turbine – 350 KW

Plant roof tops are provided solar panel (346KWp) to tap renewable energy source. Cleaner source of energy - natural gas for steam production

Installation of new ETP
(Effluent Treatment Plant)
facility - Soil Biotechnology
(SBT) is a Green Engineering
approach based on a bioconversion process and MEE
(Multiple Effect Evaporation)

FINORCHEM LIMITED, PANOLI



EFFLUENT TREATMENT PLANT



OUR VALUED CUSTOMERS



































INTERNATIONAL PRESENCE



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EXPORTING COUNTRIES



NEWS & MEDIA









