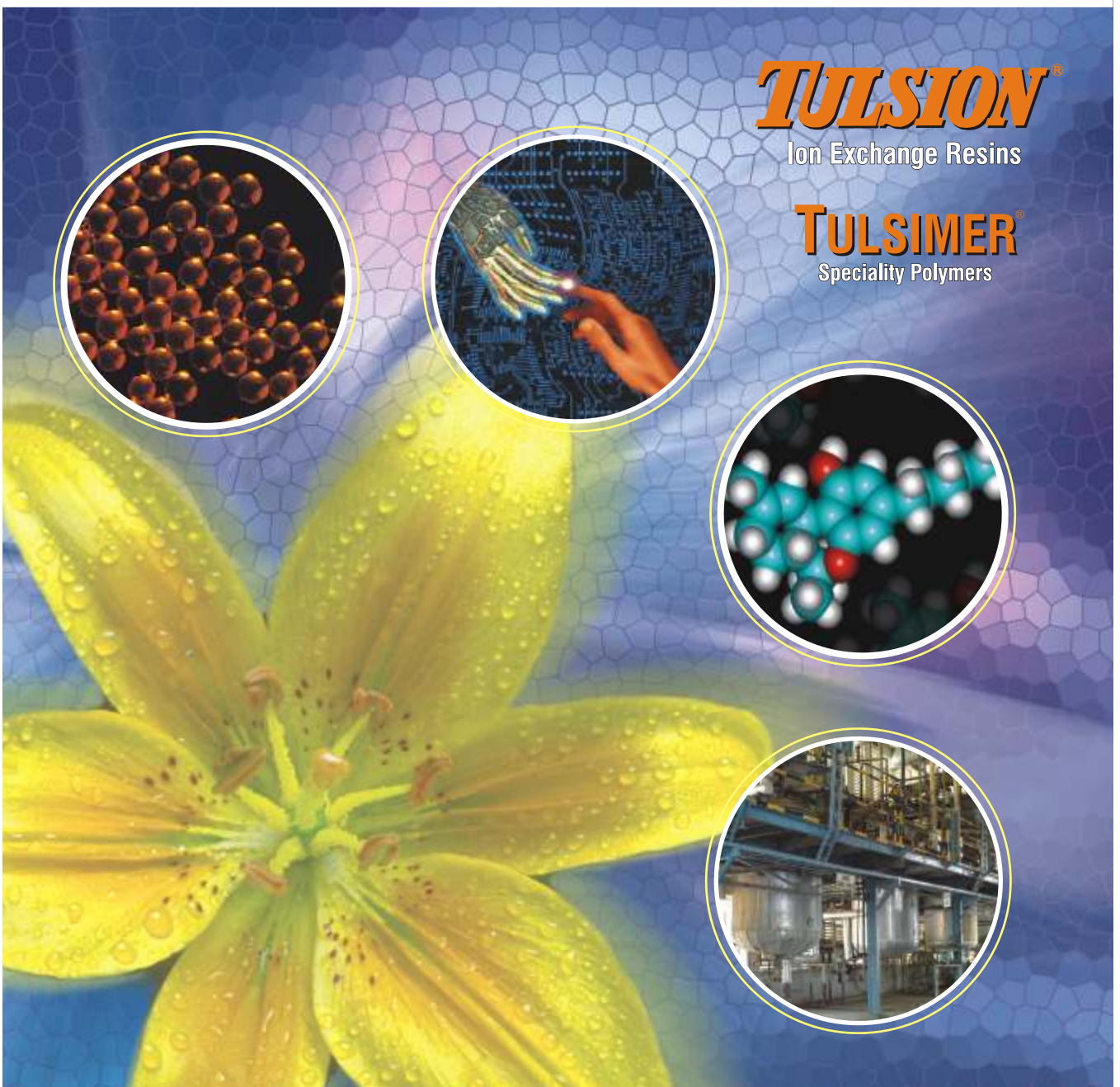


# Chemicals



**TULSION<sup>®</sup>**

Ion Exchange Resins

**TULSIMER<sup>®</sup>**

Speciality Polymers

From Product to Productivity

**Improving your business  
is our business**

Thermax offers products, systems and solutions in energy and environment engineering to industrial and commercial establishments around the world. Its business expertise covers heating, cooling, waste heat recovery, captive power, water treatment & recycling, air pollution control & waste management and performance chemicals.

Thermax brings to customers extensive experience in industrial applications, and expertise thought technology partnerships and strategic alliance.

Operating from its Headquarters in Pune (Western India), Thermax has built an international sales & service network spread over South East Asia, Middle East, Africa, Russia, UK and the US. It has a full-fledged ISO 9001 : 2000 and ISO 14000 Accredited manufacturing setup.

#### **Chemical Division**

- Ion Exchange Resins : **TULSION®**, **TULSIMER®**
- Cooling Water Treatment Chemicals : **MAXTREAT®**
- Boiler Water Chemicals : **MAXTREAT®**, **MAXCLEAN®**
- Fuel Additives : **THERMOSOL®**
- Fireside Cleaning Compounds : **THERMOMIX®**, **ECONOMIX®**
- Polyelectrolytes : **MAXFLOC®**
- Reverse Osmosis Chemicals : **MAXTREAT®**
- Speciality Sugar Chemicals : **MAXTREAT®**
- Oilfield Chemical Business : **MAXDIP®**, **CORROMIN®**, **SCALEMIN®**, **BIOMIN®**

# **TULSION®**

## **Ion Exchange Resins**

### **Special Applications in...**

#### **Removal | Recovery | Adsorption**

##### **Removal of...**

- ▶ Aromatic Compounds Phenol / Substituted Phenol (Aqueous and Non-Aqueous Streams)
- ▶ Chlorinated Solvents
- ▶ Fulvic Organic Acid
- ▶ Surfactants and Chlorinated Pesticides, Waste Treatment
- ▶ Aldehyde
- ▶ Heavy Metals (Pb, As, Ag, Fe, Ni, Co....)

##### **Recovery of...**

- ▶ Heterocyclic Amines
- ▶ Polypeptides & aminoacids
- ▶ Heavy and Precious Metals
- ▶ Lysine

##### **Adsorption of...**

- ▶ Fatty Acids
- ▶ Vitamin B12
- ▶ Enzymes and Proteins

## **Special Applications...**

### **Purification-Separation**

### **Decolourisation**

### **Unique Applications**

##### **Purification-separation of...**

- ▶ Amino Acids And Alkanolamines
- ▶ Chromatography, Enzyme Support
- ▶ Antibiotic
- ▶ MEG
- ▶ Alcohol, Glyoxyl and Organic Acids
- ▶ Condensate Polishing in Power Plants
- ▶ Cephalosporin C
- ▶ Chelating Resins for Brine Decalcification

##### **Decolourisation of...**

- ▶ Sugar
- ▶ Process Streams
- ▶ Kraft Pulpmill Effluent
- ▶ Fruit Juice Debittering



##### **Customised Applications...**

- ▶ Precision Cleaning
- ▶ Wire Cut Machine
- ▶ MB Units
- ▶ Ultra Pure Water-MB Resins
- ▶ UPS Resins
- ▶ Investment Casting
- ▶ Catalysis
- ▶ Pharmaceutical
- ▶ Nuclear Grade Resins

## ■ Applications in Water Treatment...

### Deionisation | Dealkalisation | Softening

- ▶ Water Softening For Industrial & Domestic
- ▶ Water Deionisation
- ▶ Dealkalisation

Tulsion types are available in Gel / Micro Porous / Acrylic form

Tulsion offers various grades of resins to suit customer process and water quality

### Sectors We Serve

Fertiliser, Nuclear Power, Thermal Power,  
Pharma, Refinery & Petrochemical, Sugar,  
Forging, Industry, Glass Industry,  
Chloroalkali Industry, Fine, Chemicals,  
Leather & many more Industries...

### Customers We Serve

- ▶ Reliance Petroleum Limited
- ▶ Indian Oil Corp. Ltd.
- ▶ Bhilai Steel Plant
- ▶ National Thermal Power Corp.
- ▶ Miura Co Ltd.
- ▶ Muromachi Technos
- ▶ SMUEK
- ▶ CULLIGAN / Vivendi
- ▶ Egyptian Water Technologies
- ▶ Monotrade Enterprise
- ▶ Chempack / Metochem
- ▶ PCM Products / IRIS Biotech GmbH
- ▶ Westech (CA)
- ▶ Calgon Carbon (PA)
- ▶ Detroit Edison (MI)
- ▶ BASF - GA
- ▶ and many more

# TULSIMER®

## ■ Speciality Polymers

### Applications...

#### Tulsimer® CB-300 (4) Filler in Investment Casting Wax

##### Productivity improving additive

- ▶ Free flow spherical beads of Cross-linked polystyrene polymer
- ▶ High thermal stability
- ▶ Highly inert and not affected by acids, alkalis, aliphatic alcohol and aromatic solvents
- ▶ Low ash content for cleaner shells after burnout
- ▶ Superior thermal conductivity
- ▶ Physically stable with high melting point
- ▶ Environmentally acceptable and user friendly



### Tulsimer® INTL

#### Glass interleaving polymer

##### Powder glass-interleaving products for float / flat / coated glass packaging

- ▶ Free flow fine mesh particle
- ▶ Excellent thermal stability
- ▶ Retards and prevent glass corrosion.
- ▶ Easy to apply and Easy to remove from glass surface
- ▶ No physical interactions with the glass surface
- ▶ No scratches and no staining, Smell free
- ▶ High compatibility with application equipment

## Our Network



## Research & Development Reassurance Quality



Quality is a universally accepted phenomenon. For us Quality is ensuring that customer requirements are not only met, but also surpassed every single time. Besides, we also strive for continuous quality improvements that are in tune with global developments. Our ISO 9001 certification is a clear indicator towards the quality assurance norms that we follow.

We reserve the right to amend any product details without notice

synergy design



# THERMAX

Sustainable Solutions in  
Energy & Environment

### Chemical Division

97-E, General Block, MIDC, Bhosari,  
Pune 411 026, India.  
Tel.: 020-27120169, 27120181 Fax: 020-27120206  
Email : sales-chem@thermaxindia.com,  
resins@thermaxindia.com

### Thermax Hong Kong Ltd

Tel : (852) 2584 6199 Fax : (852) 2584 6133  
Email : vaishnav@thermax-china.com  
www.thermax-china.com

### Ahmedabad

409-411 Mahakant, Opp. V. S. Hospital,  
Ashram Road, Ahmedabad 380 006, India.  
Tel.: 91-79-26575408 Fax: 91-79-26577270

### Mumbai

Dhanrajmahal 2nd floor,  
Chhatrapati Shivaji Maharaj Marg, Near Gateway  
of India, Colaba, Mumbai 400 039, India.  
Tel: 91-22-22045391 Fax: 91-22-22040859

### Baroda

85/B Amin Chambers, 2nd floor, Sampat Rao Colony,  
Productivity Road, Alkapuri, Baroda 390 005, India.  
Tel.: 91-265-2345442 Fax: 91-265-2310051

### Bangalore

54/1, Central Street, 8th Cross,  
Kumara Park West, Bangalore 560 020, India.  
Tel.: 91-80-23467761/2/3 Fax: 91-80-23467760

### Delhi

9, Community Centre, Basant Lok,  
New Delhi 110 057, India.  
Tel: 91-11-26145319 Fax: 91-11-26145311

### Chennai

Fatima Akhtar Court, 3rd floor, 453 Anna Salai,  
Teynampet, Chennai 600 018, India.  
Tel: 91-44-24353831 Fax: 91-44-24353841

### Kolkata

Azimganj House, 5th Floor,  
7 Camac Street, Kolkata 700 017, India.  
Tel: 91-33-22826711 Fax: 91-33-22826796

### Hyderabad

6-3-649 Nalanda Complex,  
Somaji Guda, Hyderabad 500 082, India.  
Tel: 91-40-23310254 Fax: 91-40-23312335

### International offices at

Indonesia, Kenya, Malaysia, Russia, Thailand,  
UAE, UK, Belgium, USA

[www.thermaxindia.com](http://www.thermaxindia.com)

## Thermax Business Portfolio

Chemicals

Absorption Cooling

Air Pollution Control

Boilers & Heaters

Captive Power

Water & Waste Solutions

May 2006 Edition