

Chemicals



**PAPER
CHEMICALS**

Emerging excellence in Paper & Board...

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 through 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.

Georgia Pacific Thermax Paper Chemicals

Novasize® AKD / ASA / EML - Internal sizing

Novacote® - Surface sizing

Ambond® - Dry strength resin

Amres® - wet strength resin

Novacoate® PC - coating

Maxfloc® -

Cationic / Anionic coagulants & flocculants, Defoamers & antifoams

Maxtreat® -

Deposit control agents & microbiocides.

Biodispersants, Antiscalants, Deinking additives.

Antifoams, coatings, Deinking additive, enzymes...

Georgia Pacific Thermax products for Paper Industry

Thermax chemicals, a flagship division of Thermax Limited has been in the business of manufacturing speciality chemicals for more than two and a half decades. Thermax in collaboration with GP offers unmatched service to the **asian paper industry** way ahead of the existing competition.

Georgia Pacific Thermax combine offers the entire spectrum of performance paper chemicals formulated to enhance the physical attributes of the paper products from wet and dry strength resins, internal alkaline sizes, surface sizes and box board coatings to specialty products such as charge modifiers and anionic trash collectors.

GP Products lines are ably supported by **Maxfloc®** range of polyelectrolytes-cationic coagulants, cationic / anionic flocculants, in powder, liquid, emulsion form and **Maxtreat®** range of microbiocides & deposit control formulations, antifoam and de-inking additives etc. **coupled with diagnostic and value added services.**



• Wet and Dry Strength Resins

Amres® wet strength and Ambond® dry strength resins engineered for paper tissues and toweling, linerboard, liquid packaging and carrier board.

• Internal Alkaline Sizes

Internal Alkaline Sizes (AKD, ASA and ASA emulsifier) targeted for communications paper, gypsum board, liner board, liquid packaging and OCC linerboard.

• Surface Size

SMA based surface size created for xerographic/inkjet papers, offset/opaque papers and forms/envelop grade also meet unique needs in newsprint, linerboard, carrier board and gypsum applications.



• Boxboard Coating

Boxboard Coatings (Pigmented white base) designed to enhance the aesthetic appearance of products within the coated and corrugated box industry.

• Surface Strength Agent & Lint Control

Surface strength agent is designed to improve wet rub and scuff resistance of paper, while enhancing other measurable properties such as wax pick, Z direction tensile, internal bond and linting or dusting.

• Specialty Products

Specialty Products – charge modifiers, anionic trash collectors and other highly charged particles to improve the runnability and performance of the sheet or board.

Range of **defoamers and antifoams** for paper machines and **brown stock washing. Boil out chemicals and detrimental substance control agents, broad spectrum biocides, deinking additives** for paper recycle, **retention and drainage aid additives, speciality enzymes for refining / bleaching boost and enzymatic microbiocides** customized offerings for excellence in paper and board.

Paper Chemicals Core Product Line

Coagulants and Flocculants

Cationic

Product Name	Characteristics	Applications
Maxfloc [®] 5020	Cationic Coagulant	Charge Neutralizer, Broke Treatment, Drainage Aid
Maxfloc [®] 5040	High charge Cationic Coagulant	Anionic Trash Collector, Broke Treatment - thick stock application
Maxfloc [®] 5911	Cationic Coagulant	Drainage Improvement
Maxfloc [®] 5921	Cationic Coagulant -High active	Charge Neutralizer, Drainage Aid
Maxfloc [®] 5931	Cationic Coagulant -High active	Drainage Aid, Fixative for pitch/stickies control, sizing
Maxfloc [®] 5204	Low Charge Cationic Emulsion	Retention Aid
Maxfloc [®] 5403	Low / Medium Charge Cationic Emulsion	Retention Aid
Maxfloc [®] 5404	Medium Charge Cationic Emulsion	Retention Aid. Dewatering Aid
Maxfloc [®] 5424	Low / Medium Charge Cationic Powder	Dewatering Aid. Retention Aid
Maxfloc [®] 5534	Medium Charge Cationic Powder	Dewatering Aid
Maxfloc [®] 5914	Low Charge Cationic Powder	Dewatering Aid
Maxfloc [®] 5924	Medium Charge Cationic Powder	Dewatering Aid for Screw Press & other ETP Applications.

Anionic

Maxfloc [®] 5603	Medium Charge Anionic Emulsion	Retention Aid
Maxfloc [®] 5623	Medium Charge Anionic Powder	Dewatering Aid for Belt Press, Save All. Retention Aid

Sizing Chemicals

AKD

Product Name	Characteristics	Applications
Novasize [®] AKD 3015	AKD Emulsion Internal Size	Sizing for writing & printing paper
Novasize [®] AKD 3016	AKD Emulsion Internal Size-High Solid	Sizing for writing & Printing paper and also for board
Novasize [®] ASA	ASA Reactive Size	Sizing for writing & printing and also for board
Novasize [®] EML 1520	Emulsifier for ASA Reactive Internal Size	Starch Modified Polymer emulsifier for ASA

Microbiocides / Deposit Control

Product Name	Characteristics	Applications
Maxtreat [®] 5050	QAC cationic base	Paper Machine Slime / Fungi Control
Maxtreat [®] 5303	Proprietary composition	Broad spectrum fungi control
Maxtreat [®] 5304	Proprietary composition	Quick killer biocide in wide pH range
Maxtreat [®] 5605	Broad spectrum phenolic	Paper Machine Slimicide
Maxtreat [®] 5608	Proprietary Thiosulphur base	Paper Machine Slimicide
Maxtreat [®] 5651	Proprietary composition	Broad spectrum biocide
Maxtreat [®] 5655	Gluteraldehyde	Broad spectrum biocide
Maxtreat [®] 5671	Proprietary composition	Bacteria / Fungi control
Maxtreat [®] 5679	Proprietary composition	Paper Machine Slimicide
Maxtreat [®] 5680	Proprietary composition	Paper machine bacteria and fungi control

Bio-dispersant

Maxtreat [®] 5003	Proprietary surfactant	Bio dispersant
----------------------------	------------------------	----------------

Antiscalant

Maxtreat [®] 5004 N	Proprietary Composition	Scale Inhibition
------------------------------	-------------------------	------------------

Boil out / Stickies Control

Maxtreat [®] 5001P	Surfactant / Detergent containing organic salt	Boil Out chemical
Maxtreat [®] DSC 5683	Surfactant with polymeric dispersant	Stickies Control

Strength Resins

Dry Strength Resin

Product Name	Characteristics	Applications
Ambond [®] 1510	Modified Cationic Dry Strength Resin, High Solid	Increase Dry Strength Properties & Cationic Starch efficiency, balances system charge
Ambond [®] 1548	Cationic Dry Strength Resin	Increase Dry Strength Properties.

Wet Strength Resin

Amres [®] 8855	General Purpose Cationic Polyamide Resin	High performance Wet Strength Resin
Amres [®] 8870	High Performance, High solid Cationic Polyamide resin	Wet Strength Improvement for Tissue, Towel, Napkin, Liner board
Amres [®] HS 30	Highest Solid Cationic Polyamide Resin	Wet strength improvement for Tissue, Towel, Carrier Board, Liner Board, Liquid packaging

Temporary Wet Strength

Soft Strength [®] 257G48	Re-pulpable Wet Strength Resin	Tissues & Towels and also where quick re-pulping is sought
-----------------------------------	--------------------------------	--

Surface size

Product Name	Characteristics	Applications
Novacote [®] 2000	Low viscosity Anionic Surface Size	Copier Toner Adhesion, coating hold out and ink jet printing.
Novabond [®] 150	Anionic Surface Strength Product	Improves wet rub and scuff resistance, wax pick and Z directional tensile, reduces linting and dusting

Antifoam

Product Name	Characteristics	Applications
Maxtreat [®] 5002 DF	Proprietary surfactant	Paper machine antifoam
Maxtreat [®] 5004 DF	Proprietary composition	Paper machine Defoaming
Maxtreat [®] 5005 DF	Proprietary surfactant	Brown stock antifoam
Maxfloc [®] 5560	Proprietary mixture of surfactants	Pulp mill antifoam, Lime mud Dewatering

Deinking / Bleaching Additive

Maxtreat [®] DI 15	Organic base	Deinking additive
Maxtreat [®] DI 25	Enzyme base.	Deinking additive
Maxtreat [®] DI 35	Enzyme base.	Bleaching...
Maxtreat [®] DI 45	Enzyme base.	For Refining

Coating

Formulation

Product Name	Characteristics	Applications
Novacote [®] PC 3050	Ready Mixed pigmented formulation	High Bright Applications for paper / board

Dispersant

Maxtreat [®] 5081	Polymeric Dispersant	Coating Dispersant
Maxtreat [®] 5281	High solid polymeric dispersant	Coating Dispersant

Our Network



Research & Development Quality Assurance

ISO 9001



ISO 14001



OHSAS 18001



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.

Research and Development

The Divisions' R&D, with its state-of-the-art laboratories is at the forefront of developing new products and technologies. Our R&D is approved by department of Science & Technology Government of India and collaborates with many scientific and academic institutes.

Thermax delivers the next generation of customer focused technologies within our core technologies using its unique, market - based management approach.

Amres[®], Ambond[®], Novacote[®], Novabond[®] are registered trade mark of Georgia Pacific Corporation. **Maxfloc[®] & Maxtreat[®]** are registered trade mark of Thermax Limited India

We reserve the right to amend any product details without notice



THERMAX

Sustainable Solutions in
Energy & Environment

Chemicals Division

97-E, General Block, MIDC, Bhosari,
Pune 411 026, India.
Tel.: 020-27120169, 27120181 Fax: 020-27120206
Email : bidrohisur@thermaxindia.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: 91-22-67542222 Fax: 91-22-22040859

Bangalore

RNG Pallazzo, No.1, 1st Floor, South End Street,
Kumarapark East, Bangalore 560001, India.
Tel.: 91-80-22371721 Fax: 91-80-22371726

Delhi

9, Community Centre, Basant Lok,
New Delhi 110 057, India.
Tel: 91-11-46087200 Fax: 91-11-26145311

Chennai

Fatima Akthar Court, 3rd floor, 453 Anna Salai,
Teynampet, Chennai 600 018, India.
Tel: 91-44-24303400 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

www.thermaxindia.com

International offices at

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

Thermax Business Portfolio

Chemicals

Boilers & Heaters

Cooling & Heating

Air Pollution Control

Captive Power

Water & Waste Solutions