

For over 15 Years ROTH Specialities India backed by European principal is a global provider of Water Treatment Chemicals & Plants, Speciality Proprietary Blends, Laboratory Chemicals, Industrial Enzymes, Industrial - Institutional Cleaners, Plastic - Polymer Additives & Metal Working Fluids.

We offers an extensive product portfolio, and smart solutions to a broad variety of industries in need of a raw material supplier. It reaches a diversity of sectors such as: Pharmaceuticals, Oil & Refinery, Electronics & Chemicals, Industrial Coatings, Inks, Polyester, Textiles, Adhesives, Food & Breweries, Sugar & Distilleries, Cosmetics & Detergents , Plastic & Polymers and among many others.

We are recognized as an innovative company which constantly renovates with the support of cutting edge technology. This is how our productive processes are strengthened. For over one & half decade together with our customers, we have been on the search for innovative chemical solutions.

Our employee's continuously acquire specialist knowledge and use it to simplify your procedural management with tailor-made products. We base our growth on research, our personnel's development and our deep knowledge of our client's business.

The Quality concept has evolved and nowadays, quality is not only understood as an attribute of the product, but a feature which has to be present in everything done in the company. It is useless to have an excellent product, if delivery times and technical assistance are not adequate.

In Roth we work under these premises, injecting quality in our all services, from the development of a product designed to cover the real customer requirements, to our after sales assistance.

Our company is committed to principals such as those of: Social Responsibility, Integral Responsibility, Sustainable Development, Environmentally friendly Production, Respect for our community and generation of trust among the people we serve.

**An ISO 9001:2015
ISO 14001:2015 &
GMP Certified Co.**

Our Vision

We will increase the value of our company by Providing excellent service, Guaranteeing quality products, Innovative leadership, Nurturing a collective sprit of unity, Responsibility through ownership. At ROTH Group, we are committed to customer satisfaction achieved by clearly understanding the customers' needs and fulfilling those requirements through continual improvement of products, services, and the quality management system.

Our Mission

We will surpass the expectations of our customers, our employees, the community and ROTH Group through world-class safety, innovation and operational excellence in the technology, production, sales and market development of specialty chemicals & technology.



ROTH Excellence



A strong technical & Raw material assistance by
Italmatch Chemical SpA, Italy
(19 manufacturing plants - 7 in Europe, 5 in Asia Pacific, 6 in North America, 1 in Saudi Arabia)



Easy & customer friendly
Solutions for water treatment
applications.



Software based
projection for RO, CWT
& BWT.



Speciality blends of cleaners
& disinfectants under Sentinel
Series.



Majority of our formulation are
based on Organic / Green
chemistry: Non-Toxic.



Single Product application
for Cooling Water Treatment –
TPCS.



A vast range of Laboratory
chemicals: More than 7000
products and adding more...



A unique range
of 10 Biological
Buffers.



All Products manufactured in
Reactors: SS – 304 / 316 to avoid
any contamination.



Best Phosphonates technology
for Filtration RO-UF-NF
Treatment.



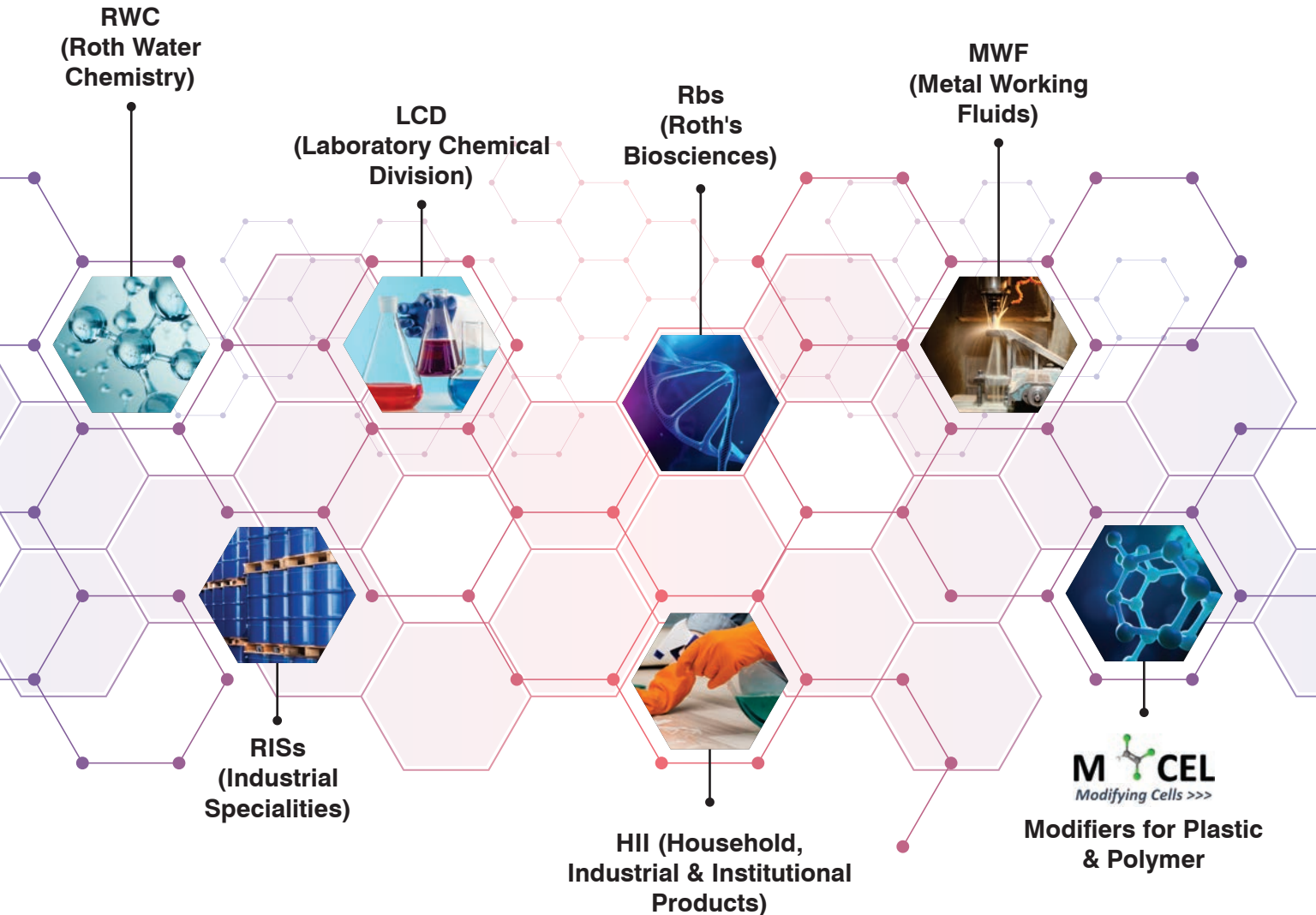
High performance micromist
cutting fluid based on Vegetable
Esters.



Detailed technical support
capabilities, backed up by
sophisticate lab in Arese, Italy

ROTH Specialities

Roth offers an extensive product portfolio, and smart solutions to a broad variety of industries in need of a raw material supplier. It reaches a diversity of sectors with our following Segments.



RWC (Roth Water Chemistry)

With technical support from 'Italmatch Chemicals SPA, Italy'

Innovative Water Solution from ROTH Specialities

Filtration / Reverse Osmosis Chemicals

- Complete range of antiscalant, cleaners & defoamers for all water/wastewater treatment membrane & thermal applications (RO, NF, UF, MEE, MED, MSF)
- Highly effective fouling/scale control in broad spectrum of water/wastewater quality at low dosages during operation or preservation.
- Will reduce & usually remove acid addition.
- Will usually increase product output, reduce offline cleaning, decrease unscheduled system upsets & downtime
- Compatible with all major membrane types (TORAY, DOW, LG & Hydranautics) & NSF certified products
- **ROTHCLEAN-350 MA-01 & ROTHCLEAN-360 MA-01 (ANSI/NSF 60) Certified formulation.**
- Advanced scale prediction software to provide antiscalant dosage projection.
- High grade, consistent quality cleaners suitable for membrane application, harsh on foulants/scalant but gentle on membrane.
- Detailed technical support capabilities, backed up by sophisticate lab in Arese, Italy
- More than 2 decade experience in filtration chemicals

Saturation Limit of RO Antiscalants

| Foulants | Index | ROTH's Antiscalants saturation limit |
|-------------------|-----------------------------------|--------------------------------------|
| Calcium Carbonate | *L.S.I. | +2.8 |
| Calcium Sulfate | #IP _b /K _{sp} | 5.5 |
| Barium Sulfate | #IP _b /K _{sp} | 150 |
| Calcium Fluoride | #IP _b /K _{sp} | 120 |
| Calcium phosphate | #IP _b /K _{sp} | 4.5 |
| Silica | ~S.C.R. | 2.5 (~412 ppm)* |

*Langelier saturation Index

#Ion product in brine/solubility product of salt

~SCR=Silica concentration ratio at 165 ppm SiO₂, 7.5 pH, 25°C

For more details
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Enhance your
membrane system
using **ROTH**
Filtration products

Roth's Antiscalant ROTHCLEAN-350MA-01 & ROTHCLEAN-360MA-01 is ANSI/NSF60 Certified Product.

Its unique performance characteristics provide users with more complete control of system feed water chemistry, reducing membrane fouling and minimizing cleaning requirements and will replace the need for acid addition.



Drinking Water Treatment Additive

ANSI/NSF 60

MH65692

Maximum Use Level: 7.0 mg/l

ROTHCLEAN-350 MA-01
(Alkaline RO Antiscalant)

ROTHCLEAN-360 MA-01
(Acidic RO Antiscalant)

For more details
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Enhance your
membrane system
using **ROTH**
Filtration products

RO Antiscalants & Cleaning Chemicals

A versatile and wide product range that helps protect membrane / filtration systems from fouling & scaling during operation or preservation.

ROTHCLEAN-340 MA-01

Reverse osmosis acidic antiscalant for Calcium carbonate, calcium Sulphate, silica and metal oxides scale inhibition.

ROTHCLEAN-340 MA-02

Reverse osmosis acidic antiscalant for Calcium carbonate, Calcium Sulphate, Moderate silica and moderate metal oxides scale inhibition.

ROTHCLEAN-390 MA-01

Reverse osmosis acidic antiscalant for Calcium carbonate, Calcium Sulphate, low silica and low metal oxides scale inhibition.

ROTHCLEAN-350 MA-01 (ANSI/NSF 60)

Reverse osmosis alkaline antiscalant for Calcium carbonate, Calcium Sulphate moderate silica and metal oxides scale inhibition.

ROTHCLEAN-360 MA-01 (ANSI/NSF 60)

Reverse osmosis acidic antiscalant for Calcium carbonate, Calcium Sulphate, silica and metal oxides scale inhibition.

ROTHCLEAN-370 MA-01

Reverse osmosis alkaline antiscalant for Calcium carbonate, Calcium Sulphate, low silica and low metal oxides scale inhibition.

| | |
|------------------------------|--|
| ROTHCLEAN-750Si MA-01 | Reverse osmosis acidic antiscalant for Calcium carbonate, Calcium Sulphate metal oxides high silica (saturation limit 2.5 (~412 ppm) SCR Index) and high Calcium Phosphate scale inhibition. |
| ROTHCLEAN-MC-510 | Acidic reverse osmosis membrane cleaning chemical for inorganic fouling |
| ROTHCLEAN-MC-410 | Alkaline reverse osmosis membrane cleaning chemical for organic fouling |
| ROTHCLEAN-MC-860 | Reverse osmosis membrane cleaning chemical for bio-fouling |
| ROTHCLEAN-MP-870 | Reverse osmosis membrane sanitization and preservation chemical |
| RBNP-890 | Online / off line Reverse osmosis membrane cleaning chemical for bio-fouling. |
| ROTHCLEAN-ME-910 | Highly effective Alkaline antiscalant for multi effect evaporators |
| ROTHCLEAN-ME-2050 | Highly effective Acidic antiscalant for multi effect evaporators |
| ROTHFLOC-110 | Membrane bio-reactor (MBR) performance enhancing polymer |
| ROTHFLOC-120 | Organic polymer for controlling silt density index |

ROTH's RO/NF Cleaner Range

| Product | CaCO ₃ | CaSO ₄ | CaPO ₄ | Silica | Metal Oxides | Organics & Slime | Microbes | Clays |
|-------------------------------------|-------------------|-------------------|-------------------|--------|--------------|------------------|----------|-------|
| ROTHCLEAN-410 (Alkaline Cleaner) | | | | | | | | |
| ROTHCLEAN-510 (Acidic Cleaner) | | | | | | | | |
| ROTHCLEAN- 860 (Biocide) | | | | | | | | |

Roth's Cooling Water Treatment



ROTH Total Protect (Single Product Treatment)

Non-Toxic Multi-Purpose Cooling Water Treatment

Roth's TPCS

ROTH Total Protect is an innovative cooling water treatment for controlling corrosion, scaling and fouling in open re-circulating systems. This specially developed formulation is a blend of new generation scale Inhibitor, cathodic corrosion inhibitor and dispersing agent.



For more details
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Advantages:

- Effective over a broad pH range & Calcium concentrations
- Controls inorganic deposits, fouling & corrosion by single product, not designed to solve one problem & create another
- No Heavy metals, compatible with downstream tertiary membrane treatment & Z.L.D.
- No inorganic phosphates, green chemistry / Non Toxic.
- Best eco-friendly corrosion control, considering all commercial phosphonates available in the market
- Highly resistant to oxidants used for biocidal action, compatible with all halogens based biocides on continuous or shock dosage
- It creates an effective inhibitor film on metal surfaces thus reducing expensive downtime and maintenance costs.



ROTH Total Protect is suitable for low to medium hardness water where high pH can otherwise induce product derived fouling. ROTH Total protect is also particularly effective in controlling deposits induced by phosphate contamination of the make-up water supply.

Air-borne foulants and water caused deposits are also dispersed by this single treatment.

Roth's Boiler Water Treatment

Oxygen Scavengers

RBW-2012
RBW-3012T
RBW-4012V

Neutralised Catalysed Sulphite.
Tanin Blend
Volatile Oxygen Scavenger

Alkalinity Builder

RBW-2011

Liquid Caustic Soda Blend

Dispersants

RBW-5015D

Sulphonated Polymers, Phosphonates.

Multipurpose Inhibitors

RBW-6000M
RBW-6001M
RBW-7001MP

Sulphite, Catalyst, Polymer, Phosphate
Sulphite, Catalyst, Polymer, Alkali
Phosphate, Catalyst, Polymer, Alkali

RBW-7001MP is a multipurpose boiler water treatment. With its unique blend of sludge conditioner, deposit dispersant, alkalinity builder and antifoam, it proves as a high performing, cost-effective synergistic combination.

RBW-9001MP

Sulphite, Phosphate, Catalyst, Polymer, Alkali

(Oxygen Scavenger, Sludge conditioner, Deposit dispersant, Alkalinity builder & Antifoam)
RBW-9110M is a Single- Product multipurpose boiler water treatment. With its unique blend of oxygen scavenger, sludge conditioner, deposit dispersant, alkalinity builder and antifoam, it proves as a high performing, cost-effective synergistic combination.



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Water Treatment Plants & Spares from ROTH Specialities

- RO-DM Plants Spares
- Industrial Wastewater Treatment Systems
- Micro-filtration / Ultra Filtration Systems
- Membrane Bio-Reactor Systems
- Reverse Osmosis / Nano filtration Systems
- Side Stream Filtration
- Water Softening Systems
- Mechanical Screening Systems (Fine/ Medium / Course)
- Sedimentation System (Circular/ Rectangular)
- Media Filtration System
- Biological Treatment - Aerobic Systems (Suspended Growth & Attached Growth)
- Anaerobic Treatment Systems (Digester / Gas Holders)
- Sludge Treatment Units (Thickener/ Vacuum Filters / Belt Filter Press)
- Oil water Separation Units (Skimmers / API / DAF)

ROTH' ISs (Industrial Specialities)

Roth Specialty Chemicals is your global source of specialty chemicals and value added materials for a wide range of industries and products. We offers products & services to many industry sectors including Pharmaceutical, food, cosmetics, material science, cleaning, electroplating and many more.

- HEDP- 60% & 50%
- A.T.M.P
- A.T.M.P. Na4
- PBTC-50%
- 1,2,3 BENZO TRIAZOLE
- ACRYLIC CO PLOYMER
- ACRYLIC HOMO POLYMER
- BIT 20%
- BKC 50%
- BRONOPOL
- CARBO HYDRAZIDE
- CMIT-MIT 14%
- DADMAC POLYMER
- DBNPA PURE
- DI CHLORO META XYLENOL
- ETHYLENE GLYCOL-METHACRYLATE
- GLUTRALDEHYDE 50%
- GLYCEDYL METHACRYLATE
- HYDROXY PROPYL ACRYLATE
- IMIDAZOLINE
- IPBC 30%
- MBT
- PARA CHLORO META CRESOL
- PARA CHLORO META XYLENOL
- CARBAMATE 40%
- TRI CHLORO ISO CYNURIC ACID 90%
- POLY MALIEC ACID 50%
- 1.4.BUTANE DIOL
- 3 HYDROXY ACETOPHENON
- 1,4-DICHLORO BUTANE
- 1-METHOXY 2-PROPANOL
- 1-PENTANOL
- DI TERT BUTYL DICARBONATE
- 2-FLUORO NITRO BENZENE 37%
- 2-PYRROLIDONE
- 4-AMINO BUTYRIC ACID
- 4-DI METHYL AMINO PYRIDINE
- 4-HYDROXY BENZALDEHYDE
- ACETYL ACETONE
- A.GUINIDINE BI CARBONATE
- BROMO ACETALDEHYDE
- CINNAMIC ACID
- CAPRIC ACID / CAPROIC ACID
- T-METHYL O-FORMATE
- DEFOAMERS & ANTIFOAMS
- CAPRYLIC ACID / CROTONIC ACID
- DI ISO PROPYL ETHYLAMINE
- DIMETHYL MALONATE
- IMIDAZOLE
- ISO AMYL ALCOHOL
- MALONIC ACID
- MALANONITRILE
- N,N-CARBONYL DI IMIDAZILE
- DICYCLOHEXYL CARBODIIMIDE
- NITROMETHANE
- N-METHYL MORPHOLINE
- PROPIOPHENONE
- TERT.AMYL ALCOHOL
- TERT.BUTYL BENZENE
- TOLYLTRIAZOLE

LCD (Laboratory Chemical Division)

A vast range of high quality Laboratory chemicals , More than 7000 Products & adding more.

Reagents, Solvents, Salts & Standards



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Rbs (Roth's Biosciences)

Biological Buffers

| S.No. | PRODUCT | CAS No. | MOL FORMULA |
|-------|--|------------|---|
| 1 | TRIS BUFFER [TRIS (Hydroxy Methyl Amino Methane)] | 77-86-1 | C ₄ H ₁₁ NO ₃ |
| 2 | TRIS HCL [TRIS (Hydroxy Methyl Amino Methane) Hydrochloride] | 1185-53-1 | NH ₂ C(CH ₂ OH) ₃ • HCl |
| 3 | BIS –TRIS Bis (2-hydroxyethyl) iminotris (hydroxymethyl) Methane | 6976-37-0 | C ₈ H ₁₉ NO ₅ |
| 4 | BIS-TRIS Propane 1,3-bis (tris[hydroxymethyl] methylamino)propane | 64431-96-5 | C ₁₁ H ₂₆ N ₂ O ₆ |
| 5 | MOPS, Sodium Salt 3- (4- Morpholino) propane Sulfonic Acid, Sodium Salt | 71119-22-7 | C ₇ H ₁₄ NNaO ₄ S |
| 6 | MOPS (4-Morpholino) Propane Sulfonic Acid | 1132-61-2 | C ₇ H ₁₅ NO ₄ S |
| 7 | HEPES N-(2-Hydroxyethyl)Piperazine-N' – (2-Ethane Sulfonic Acid) | 7365-45-9 | C ₈ H ₁₈ N ₂ O ₄ S |
| 8 | CHAPS 3-[(3-Cholamido Propyl)-Dimethyl Ammonio] Propane sulfonate | 75621-03-3 | C ₃₂ H ₅₈ N ₂ O ₇ S |
| 9 | ACES 2-[(2-Amino-2-oxoethyl) Amino] Ethanesulfonic Acid | 7365-82-4 | C ₄ H ₁₀ N ₂ O ₄ S |
| 10 | CAPS 3-(Cyclohexylamino)- Propane Sulfonic Acid | 1135-40-6 | C ₉ H ₁₉ O ₃ S |

Laboratory Chemicals for Electroplating Industries

Products

01. SULPHURIC ACID
02. HYDROCHLORIC ACID
03. NITRIC ACID
04. HYDROGEN PEROXIDE 30%
05. ZINC DUST
06. POTASSIUM PERMANGANATE POWDER / CRYSTAL
07. BARIUM CARBONATE
08. BARIUM HYDROXIDE
09. EDTA DI SODIUM SALT
10. EDTA DI POTASSIUM SALT
11. E.D.T.A N/50 SOLUTION
12. CHARCOAL ACTIVATED POWDER
13. CHARCOAL ACTIVATED GRANULER
14. ZINC OXIDE
15. ROTHKLEEN-701 NEUTRAL
16. BORIC ACID
17. COPPER SULPHATE PENTAHYDRATE
18. DI POTASSIUM HYD. ORTHOPHOSPHATE
19. SILVER NITRATE
20. DI SODIUM HYD. ORTHOPHOSPHATE
21. SODIUM DI HYD. ORTHOPHOSPHATE
22. SODIUM LAURYL SULPHATE
23. TIN II CHLORIDE DIHYDRATE
24. FERROUS SULPHATE
25. AMMONIUM CHLORIDE
26. SODIUM THIOSULPHATE
27. SODIUM CHLORIDE
28. SODIUM HYDROXIDE PELLETS
29. POTASSIUM HYDROXIDE PELLETS
30. PALLADIUM CHLORIDE

All pack size is available.

MWF (Metal Working Fluids)

ROTHCUT-500 U

High performance Micromist Cutting Fluid based on vegetable esters

ROTHCUT-500U is a premium quality biodegradable Polar metal cutting lubricants. It is formulated to work with Aluminium, Copper, Steel, cast iron and Stainless steel.

Advantages

- Better Surface Finish
- High Tool life
- Cleaner Machine and Shop floor
- No smell
- Environment friendly and Bio- degradable
- Meets OSHA oil mist compliance standard

It is applied by micro mist system and can be used for Circular and Bandsawing, Aluminium extrusion sawing, single sided broaching, turning and facing, stamping, coining, fine blanking and Thread Rolling.

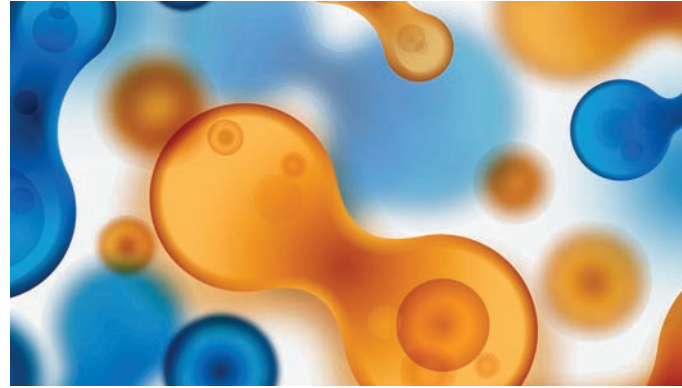
ROTHCUT-500U contains extreme pressure additives to give you excellently smooth cutting performance.



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Enzyme & Process Enhancers

- Fungal Alpha Amylase
- Bacterial Amylase
- Trypsin Chymotrypsin mix
- Serratiopeptidase Coated / Uncoated
- Bromelain 2400
- Papain
- Pepsin
- Pancreatin
- Lactic acid bacillus
- Azithromycin
- Lactase
- Ox Bile Extract
- Vitamin C



HII (Household, Industrial & Institutional Products)

- **Sentinel Series of Cleaners & Disinfectants**
- Soft & hard surface cleaners
- Hypochlorous Acid
- Fruit & Vegetable Cleaner
- Hard Surface Cleaner
- Oxo-Biodegradable Garbage PE Bags

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Modifiers for Plastics & Rubber



Modifying Cells >>>

MxCEL modifiers are substances that decompose or vaporize easily at given temperatures to produce large quantities of gases or vapours and capable of producing a cell structure via a foaming process in a variety of materials like: Polymers, Plastics Rubber etc.

MxCEL Series of Chemical Foaming Agents:

- Azo Compounds
- Carbonates
- Bicarbonates
- Nitrites
- Hydrides
- Peroxides
- Oxygen-containing acid derivatives
- Urea Derivatives
- Hydrazines
- Semicarbazides
- Azides
- N-nitroso compounds
- Triazols

Exothermic Modifiers

MxCEL-1085

Exothermic Foaming Agent ADC Modified Chemistry

MxCEL-1650

Exothermic Foaming Agent ADC Fine Chemistry

MxCEL-EP-41

Exothermic Foaming Agent blended chemistry for EPDM

MxCEL-101-RM

Exothermic Foaming Agent blended chemistry for Roto Moulding application

MxCEL-OBSH

Exothermic Foaming Agent for EPDM

ENDO-EXO Blend Modifiers

MxCEL-1050

Endothermic-Exothermic Foaming Agent blended chemistry

Endothermic Modifiers

MxCEL-1000F

Endothermic Foaming Agent blended chemistry

MxCEL-1900

Endothermic Foaming Agent blended chemistry

MxCEL-1913

Endothermic Foaming Agent fine chemistry

Master Batches Modifiers

MxCEL-41-MB

Master Batch Exothermic Foaming Agent blended chemistry for EPDM

MxCEL-OBSH-MB

Master Batch Exothermic Foaming Agent blended chemistry for EPDM

Research & Development

Ceaseless endeavour toward technology aims for the innovation of Roth

We are furthering the development of innovative technology to respond to social issues and the potential needs of our customers in order to evolve our existing businesses and create new businesses geared toward future generations at Roth. One particular area of focus is the research and development of revolutionary materials for business regions from Chemical and environment/Laboratory Solutions/Polymer and health care. We are working while utilizing open innovation to strengthen strategic technologies in the advanced chemical field in addition to core fundamental technology such as organic/inorganic synthetic chemicals, catalytic chemicals, high polymer chemistry, and water treatment chemicals & plants to respond to more complex needs.

Some of our specialized formulations are -

TPCS (Total Protection for Cooling System)

Single formulation for Cooling Water Treatment.

ROTHCLEAN-750Si: High Silica RO Antiscalant

(Effective control of Silica scaling with saturation limit- 412 PPM (S.C.R) # # SCR=Silica concentration ratio at 165 ppm SiO₂, 7.5 pH, 25°C)

ROTHCUT-500U

High performance micro mist cutting fluid based on Vegetable Esters.

SENTINEL-365

Hydrogen Peroxide & Nano-Silver based disinfectant

Roth in action

Supporting a wide variety of product formulations

Roth Spl. manufacturer of high-quality speciality formulations and Chemicals needed to improve its business systems and deliver better customer service. the company gained a system that could support its current processes and become a foundation for the future. As its customer requests were becoming more complex, the company also needed to be able to fulfil them quickly, while also managing all of the different processes for specific product formulations. Roth Spl. out-of-the-box functionality helped the company to immediately improve the way it worked

Reducing costs and gaining efficiency

Roth Spl, we are in continuous efforts for improvement in our production and services for gaining efficiency, our solution can help you to solve your most pressing challenges. Take a look at some of our Roth Spl success stories at www.rothspeciality.in

ROTH | CSR

Contributing to society with a spirit unwavering since our founding

We are pouring our strengths into installations of social infrastructure and social contribution activities with best of our capabilities, currently, we are promoting global CSR activities with the association Love Care foundation with various manner.



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Technical Sessions & Trainings

We continuously provide product training and keep our employees, customers & channel partners updated.



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Let **ROTH** ease you
like a cup of coffee at your workplace.

Customer Care : +91 98716 36222



ROTH®
Schmierstoffe
Let our Excellence be yours

ISO 9001:2015 (QMS) | ISO 14001:2015 (EMS) | **GMP** Certified

H.O.: Roth House, 3A, Aura, Cosmos Springs, Godbunder Road, Thane, Maharashtra - 400607
North & East: Plot No- 19, Anand Industrial Estate, Mohan Nagar, Ghaziabad, Uttar Pradesh - 201007

info@rothspeciality.in
www.rothspeciality.in