



RESINS

SEPARATE · PURIFY · INNOVATE



QUALITY

Manufactured
under strict
quality
standards



SUSTAINABILITY

Efficient
solutions for
water care



RELIABILITY

Technical
support and
specialized
service

CATALOGUE
2026

ADVANCED RESIN SOLUTIONS FOR PURIFICATION AND INDUSTRIAL PERFORMANCE

Advanced resins are essential pillars for optimizing efficiency and sustainability in industrial purification and separation processes. Meeting the most demanding industry requirements, we offer a specialized range of high-performance solutions for water treatment, catalyst resins, hydrometallurgy, and fruit juice processing, helping businesses maximize product purity while driving the transition toward a circular economy.

At **MERYT Catalysts & Innovation**, we are fully committed to delivering innovative resins developed in collaboration with leading polymer and materials research centers. Backed by our internationally recognized experts, we provide continuous technical service and support to maximize product value, ensuring superior operations and building strong, rewarding, and long-lasting relationships with our customers.

OUR SERVICES



PROCESS OPTIMIZATION

- ✓ Unit design, start-up and optimization
- ✓ Loading and unloading assistance to minimize downtime
- ✓ Resin performance evaluation and recommendations
- ✓ Reduced regeneration costs and maximized efficiency



TECHNICAL SUPPORT

- ✓ Continuous field support throughout the resin lifetime
- ✓ Operator training and troubleshooting
- ✓ On-site and remote technical assistance
- ✓ Safety, reliability and operational excellence

WHY US?



INNOVATIVE RESINS SOLUTIONS

Advanced materials for demanding applications



GLOBAL PRESENCE

Local support in Europe and the Middle East



HIGH QUALITY

Resins with consistent performance and short delivery times



CUSTOMER FOCUS

Long-term partnerships focused on your success

TECHNOLOGY THAT PURIFIES. SOLUTIONS THAT PERFORM.



WATER TREATMENT

Advanced solutions for softening demineralization and ultrapure performance for municipal, industrial and boiler water systems.



CATALYTIC PROCESSES

High purity resins for esterification, transesterification, etherification, and purification processes in refining, petrochemical and biodiesel production.



HYDRO- METALLURGY

Specialized resins for the recovery of valuable and critical metals with high selectivity and efficiency from brines, leachates and complex solutions.



FOOD & BEVERAGE

Resins designed to improve quality, clarity, color and taste in fruit juice processing and other food applications.



**CATION
RESINS**



**ANION
RESINS**



**MIXED BED
RESINS**



**ADSORBENT
RESINS**

WATER TREATMENT RESINS

Product	Resin Type / Matrix	Functional Group	Main Application / Benefit
MERYT SACE-01	Strong Acid Cation / Gel Type	<i>Sulfonic Acid</i>	High efficiency for industrial water softening and demineralization.
MERYT SACE-07	Strong Acid Cation / Standard	<i>Sulfonic Acid</i>	High operational capacity for demanding demineralization systems.
MERYT SACE-SG	Strong Acid Cation / Gel Type	<i>Sulfonic Acid</i>	General use in demineralization; outstanding mechanical strength and long service life.
MERYT MWC-29	Weak Acid Cation / Macroporous	<i>Carboxylic Acid</i>	Industrial dealkalization and softening of high-hardness water.
MERYT D201	Strong Base Anion / Macroporous	<i>Quaternary Ammonium</i>	Excellent osmotic shock resistance for treating water with a high organic load.
MERYT D201-7	Strong Base Anion / Gel Type	<i>Quaternary Ammonium</i>	Standard high operating capacity for general demineralization processes.
MERYT MWA-94	Weak Base Anion / Macroporous	<i>Tertiary Amine</i>	Demineralization and removal of naturally occurring organic compounds.

Product	Resin Type / Matrix	Functional Group	Main Application / Benefit
MERYT D301	Weak Base Anion / Macroporous	<i>Tertiary Amine</i>	Exceptional regeneration efficiency; ideal for the removal of naturally occurring organics.
MERYT SBAG	Strong Base Anion / Macroporous	<i>Quaternary Ammonium</i>	Deionization treatments requiring high physical and chemical stability.
MERYT M400	Mixed Bed / Gel Type	<i>Sulfonic Acid & Quaternary Ammonium</i>	Final polishing for ultrapure water production (total deionization) without regeneration.

CATALYTIC PROCESSES RESINS



Product	Resin Type / Matrix	Functional Group	Main Application / Benefit
MERYT ET-54	Polymeric Strong Acid Cation / Macroporous	Sulfonic Acid	Industrial catalytic processes (MTBE/ETBE synthesis, hydration).
MERYT EST-210	Strong Acid Cation / Macroporous	Sulfonic Acid (H ⁺ Form)	Solid catalyst designed for esterification and transesterification processes.
MERYT BD-310	Strong Acid Cation / Macroporous	Not applicable (Dry Wash) Sulfonic Acid	Biodiesel purification; removes water, glycerin, methanol, and soaps without requiring pretreatment.
MERYT HP-410	Adsorbent / Macroporous	Physical Adsorption	Adsorption of organic impurities in fine chemical processes (e.g., hydrogen peroxide purification).

HYDROMETALLURGY RESINS



Product	Resin Type / Matrix	Functional Group	Main Application / Benefit
MERYT HM-510	Weak Acid Cation / Macroporous	Chelating (Aminophosphonic Acid)	Secondary brine purification; high selectivity for Ca ²⁺ , Mg ²⁺ , and Sr ²⁺ .
MERYT HM-511	Weak Acid Cation / Macroporous	Chelating (Aminocarboxylic Acid)	Recovery of heavy metal ions (such as copper) in complex media.
MERYT HM-520	Cation Exchange / Macroporous	Chelating (Lithium Specific)	Direct lithium extraction (DLE) and selective recovery from brines.
MERYT HM-530	Weak Acid Cation / Macroporous	Chelating (Bis-picolylamine)	Transition metal capture; cobalt/nickel separation in low pH solutions.
MERYT HM-540	Weak Acid Cation / Macroporous	Chelating (Specific per metal)	Recovery of valuable metals from mining leachates.
MERYT HM-550	Weak Acid Cation / Macroporous	Chelating (Specific per metal)	Concentration of critical metals in hydrometallurgical solutions.
MERYT HM-560	Weak Acid Cation / Macroporous	Chelating (Specific per metal)	High efficiency extraction for specific transition metals.

FOOD & BEVERAGE



Product	Resin Type / Matrix	Functional Group	Main Application / Benefit
MERYT FJ-630	Base Anion / Macroporous	Adsorption/ Exchange	Advanced food processing; removal of pesticides and patulin in apple juice.
MERYT FJ-610	Adsorbent / Macroporous	Styrene-DVB Copolymer	Effective decolorization and clarity improvement in fruit juices.
MERYT FJ-611	Adsorbent / Macroporous	Physical Adsorption	Improvement of color index and removal of undesirable compounds.
MERYT FJ-613	Adsorbent / Macroporous	Physical Adsorption	Stabilization and removal of turbidity/bitterness in citrus juices.
MERYT FJ-621	Adsorbent / Macroporous	Physical Adsorption	Clarification and purification of natural extracts and sugar solutions.
MERYT FJ-640	Adsorbent / Macroporous	Physical Adsorption	Deacidification and flavor profile optimization in processed beverages.



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