



TECHNICAL DATASHEET

M5-T Resin

Selective Mercury Removal Chelating Resin

M5-T is a macroporous polystyrene-based thiourea chelating resin designed for the selective removal of heavy metals. It is commonly used for mercury removal in various aqueous solutions and is also applied in wastewater treatment and in recovering precious metals from electronic-industry rinse waters.

SPECIFICATION AND TYPICAL PROPERTIES*		
Matrix Structure	-	Polystyrene DVB
Functional Group	-	Thiourea
Appearance	-	Beige Spheres
Bulk Density	kg/m ³	700±50
Density	kg/m ³	1100±50
Particle Size Distribution	98%	0.40-1.25
Moisture Content	%	45±10
Total Capacity	er/L	min. 1
pH Limits	-	0-14

RECOMMENDED OPERATING CONDITIONS		
Temperature	°C	max. 100
pH	-	1 - 10
Bed Depth	mm	min. 1000
Pressure Drop	[Bars]	max. 2.65
Operating Linear Velocity	[m/h]	max. 25
Backwash Linear Velocity	[m/h]	12 (at 20°C)
Bed Expansion	[vol.%]	10 (at 20°C per m/h)
Backwash Freeboard	[vol.%]	80

*Specifications and typical properties are listed for informational purposes only and not to be used as purchase specifications.

Safety Advice

- Store resins in sealed containers above 0°C in dry conditions, and away from direct sunlight
- Do not mix resins with strong oxidizing agents to avoid dangerous reactions
- If resin contacts the eyes, rinse with plenty of water and seek medical attention
- Dry polymers expand when wetted and may release heat
- Spilled resin beads can be slippery

Disposal

At the end of its service life, the resin should be disposed of in a responsible manner and in accordance with all applicable local regulations and site requirements.