

Metal Scavengers

Johnson Matthey's range of metal scavengers comprises of macroporous polymer and silica beads for metal impurity removal from organic and aqueous process streams.



JM

QuadraPure[™] TU

Polymer beads for metal impurity removal

JM's QuadraPure[™] TU comprises of spherical macroporous beads for metal impurity removal from organic and aqueous API streams.

Key features

- Spherical beads with narrow particle size distribution for controlled metal uptake
- Selective metal uptake - Minimal impact on yield
- Wide solvent compatibility range
- Excellent flow characteristics in packed cartridge
 - Specific PSD allows optimised flow characteristics
 - Allows use in potent systems where containment is critical

	PSD	Functional group		Mode of action	Impurity targets
QuadraPure [™] TU	400 – 600 μm	NH ₂	Thiourea	Complexation/ ligand exchange	Pd, Pt, Rh, Ru, Cu

QuadraSil™

Silica beads for metal impurity removal

JM's QuadraSil[™] range of silica based scavengers, are comprised of both spherical and non-spherical silica beads for metal impurity removal from both process and API streams.

Key features

- High surface areas optimising scavenging potential

 Fast kinetics for metal uptake
- Excellent performance at room temp - Reduces utility and operational costs
 - Allows use in temperature restricted systems
- Selective metal uptake

 Minimal impact on yield

- Wide solvent compatibility range
- Easily packed into a cartridge
 - Zero swell simplifies engineering of cartridge system to optimise scavenging performance
 - Allows use in potent systems where containment is critical

	PSD	Functional group		Mode of action	Impurity targets
QuadraSil [™] MP(S) Spherical	20 - 100 µm	Sн	Mercapto	Complexation/ ligand exchange	Pd, Pt, Rh, Ru, Cu
QuadraSil [™] MP(I) Irregular	250 - 710 μm	Т	Mercapto	Complexation/ ligand exchange	Pd, Pt, Rh, Ru, Cu



To find out more search metal scavengers on matthey.com or email pharma@matthey.com