

TEMIZ™ - Separation Resins		
Type: Product note		Version: 2026-V1

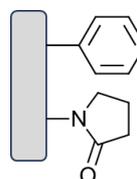
TEMIZ™ Polar RP Pyrrolidone

Material overview

TEMIZ Polar RP Pyrrolidone is a rigid polymeric resin with a combination of hydrophilic and lipophilic properties for use in separation, batch binding or scavenging. The resin chemistry backbone consists of highly stable DVB-Styrene with polar cyclic amide groups. The mesoporous structure is optimal for small and oligomeric molecules.

Resin properties

Resin matrix	DVB/Sty
Particle size	200-1250 µm
Functionality	Polar RP Pyrrolidone
Amide content, ca	2 mmol/g
Porosity	Mesoporous



Application areas

With a new surface chemistry combination, this material offers a new selectivity for retaining organic compounds but is expected to exclude large proteins and other large molecules. Its unique rigid structure retains its porosity and therefore allows effective binding in both aqueous and non-aqueous / organic solutions.

The cyclic amide of the pyrrolidone group presents a polar portion of the material lending a degree of hydrophilicity to adapt for hydrophilic/hydrophobic interactions. The hydrophilic portion may facilitate desorption of compounds bound to the resin surface.

The large particles are optimal for preparative applications. They sediment quickly in suspension-type adsorption processes and pose low back-pressure conditions when packed in large columns.

Place your order at: order@redstone-sep.com.

Resin	Grams	Product code
Polar RP Pyrrolidone	1	11-03-0001
Polar RP Pyrrolidone	5	11-03-0005
Polar RP Pyrrolidone	10	11-03-0010
Polar RP Pyrrolidone	25	11-03-0025
Polar RP Pyrrolidone	100	11-03-0100