


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

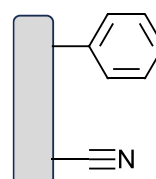
## TEMIZ™ Polar RR Nitrile

### Material overview

TEMIZ Polar RR Nitrile 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 nitrile groups. The mesoporous structure is optimal for small and oligomeric molecules.

### Resin properties

Resin matrix	DVB/Sty
Particle size range	200 - 1250 µm
Functionality	Polar RR Nitrile
Capacity, approx	1,5 mmol/g
Pore size	mesoporous
Area	500 m <sup>2</sup> /g



### 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. Unlike conventional softer resins this resin will retain its porous structure in organic solvents, oils and non-polar solutions.

The nitrile group is quite versatile and can be further converted to a variety of other reactive moieties to adapt for other interactions or for coupling of ligands.

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](mailto:order@redstone-sep.com).

Resin	Grams	Product code
Polar RR Nitrile	1	11-01-0001
Polar RR Nitrile	5	11-01-0005
Polar RR Nitrile	10	11-01-0010
Polar RR Nitrile	25	11-01-0025
Polar RR Nitrile	100	11-01-0100