### Spinbar® Magnetic Stirring Bar Guide

#### A Magnetic Stirring Bar for Every Application

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### Spinbar® Magnetic Stirring Bar Shapes and Performance

Whether mixing is needed in a 10mm cuvette, a 1.5ml vial, a beaker, or a 50 gallon drum, there is a Spinbar® magnetic stirring bar that can do the job. Bel-Art – SP Scienceware offers the most comprehensive selection of magnetic stirring bars on the planet.

- **Capsule** magnetic stirring bar has a polygon magnetic stir bar that spins freely inside a protective capsule. The capsule assures the bar does not spin off center and reduces turbulence and obstructions to ensure consistent smooth stirring.

- **Cell** magnetic stirring bars are designed specifically for use with spectrophotometer cells, cuvettes or test tubes. The cell stirrer fits into standard 10mm spectral cells and provides rapid vertical and horizontal mixing with a minimum of vexing when placed on a magnetic stirring machine. Centrifugal pumping action, generated by the cross channels in the upper face, mixes without aeration.
Octagon magnetic stirring bars with integral pivot ring are the most commonly used shape. Their interrupted profile provides greater surface area and added turbulence when compared to the smooth surface of cylindrical bars. Pivot ring aids in reducing friction and chattering.

Octagon – Rare Earth magnet
The superior magnetic energy of Rare Earth (Samarium Cobalt) magnets provides strong coupling with drive magnets reducing frequency of spinout in viscous solutions or high speed stirring. The bright green Teflon® PTFE coating makes them easy to identify in the laboratory.

Plain Spinbar® Magnetic Stirring Bars
Smooth surface stirbars have no sharp or flat edges which maximizes contact with the stirring vessel.

Polygon/Giant Polygon
Multifaceted surfaces add turbulence relative to similar smooth size cylindrical bars. Giant Polygon bars can be used for stirring substantial volumes in large vessels such as drums and tanks. Available with or without a molded pivot ring, this ring minimizes the contact area between the bar and the vessel, thus reducing friction and chattering.

Pyrex® Spinbar® glass encapsulated Alnico magnet stirring bars are useful for high temperature applications up to 274°C (525°F) where Teflon® PTFE is not stable. Completely smooth surface offers “zero absorption” of the stirred solution.
Round magnetic stirring bars with tapered ends have a naturally centered pivot point, eliminating the need for a separate pivot ring. Smooth surface and the slightly raised ends on these bars facilitate efficient movement through solutions.

Saturn Spinbar® Magnetic Stirring Bars easily stir powders into solutions without getting stalled. A prominent sphere in the middle of the bar elevates the stirring bar arms during rotation and consequently diminishes the surface contact area, permitting the magnet to spin freely without stalling. For use in round or flat bottom vessels.

Spinfin® magnetic stirring bars can be used in round bottom flasks as well as rounded vessels such as test tubes or cylinders.

Spinplus® magnetic stirring bars add speed and efficiency to mixing operations. The “+” shape creates a deep vortex and provides stable, quiet operation.

Spinring® stirring bars provide maximum stabilization of the magnetic stirring bar with the addition of a “hoop” around a standard octagonal bar. The friction fit of the “hoop” and bar allows them to spin as a unit. By presenting a greater surface area and wider profile, “spin out” is virtually eliminated. This particular arrangement is best suited for larger open-neck vessels, such as buckets and beakers.

Spinstar® magnetic stirring bars create a deep mixing vortex at relatively slow speeds. Designed to fit the inside diameter of most commonly-used beakers, the Spinstar® stirring bar is perfect for applications requiring slow, thorough mixing.

Spinvane® magnetic stirring bars are designed for test tubes, micro vials and conical bottom centrifuge tubes. Each style is manufactured for a specific size tube, but can be modified if needed without affecting the magnet.

Spinwedge® magnetic stirring bars provide strong turbulence at fairly low speeds and are well suited for churning sediment or dissolving salts.

Saturn Spinbar® Magnetic Stirring Bars

Spinfin® magnetic stirring bars

Spinplus® magnetic stirring bars

Spinring® stirring bars

Spinstar® magnetic stirring bars

Spinvane® magnetic stirring bars

Spinwedge® magnetic stirring bars

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