

# MAGNETIC STIRRING BAR



Magnetic stirring bars give effective stirring of samples via magnetic manipulation. Many models feature an octagonal shape with a central integrated pivot ring for optimal turbulence while stirring because of a greater area. Commonly coated in Teflon to supply chemical inertness; occasionally glass is the coating to be used with most liquid metals and alkali metal solutions in ammonia. Both of those coatings are inert and cannot contaminate or react with the reaction solution.

## Octagon Spinning Magnetic Stirrer Bar Teflon

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.



Catalog No.	Description	Length	Diameter(mm)	Ring Dia.
CS-1-412	Octagon Spinning Magnetic Stirrer Bar Teflon, Dia. 7.9mm,	12 mm	6 mm	19 (3/4) mm
CS-1-425	Octagon Spinning Magnetic Stirrer Bar Teflon, Dia. 7.9mm,	25 mm	8 mm	31.8 (1 1/4) mm
CS-1-438	Octagon Spinning Magnetic Stirrer Bar Teflon, Dia. 7.9mm,	38.1(1 1/2") mm	7.9 (5/16) mm	44.5 (1 3/4) mm
CS-1-451	Octagon Spinning Magnetic Stirrer Bar Teflon, Dia. 7.9mm,	51(2") mm	7.9 (5/16) mm	57.2 (2 1/4) mm

## PTFE Egg - Shaped (Oval) Magnetic Stir Bars

- ▶ Elliptical (Egg Shaped) magnetic stirring bars are particularly well suited for round bottom flasks
- ▶ Their shape mimics that of a flask and ensures complete mixing.
- ▶ They also offer minimal contact when used in plastic containers.



Catalog No.	Length	Diameter(mm)
CS-1-61	10 mm	5 mm
CS-1-615	15 mm	6 mm
CS-1-62	20 mm	10 mm
CS-1-625	25 mm	12 mm
CS-1-625-10	25 mm	10 mm
CS-1-63	30 mm	16 mm
CS-1-630-10	30 mm	10 mm
CS-1-635-13	35 mm	13 mm
CS-1-635	35 mm	16 mm
CS-1-640-13	40 mm	13 mm
CS-1-65	50 mm	20 mm
CS-1-650-17	50 mm	17 mm
CS-1-664	64 mm	20 mm
CS-1-67	70 mm	20 mm
CS-1-670-25	70 mm	25 mm
CS-1-670-27	70 mm	27 mm
CS-1-6100	100 mm	30 mm
CS-1-6150	150 mm	40 mm

## PTFE Polygon Magnetic Stir Bars with Pivot Ring

- ▶ 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.



Catalog No.	Length	Diameter(mm)
CS-1-312	12 mm	4.5 mm
CS-1-312-6	12 mm	6 mm
CS-1-313-8	13 mm	8 mm
CS-1-315	15 mm	4.5 mm
CS-1-315-8	15 mm	8 mm
CS-1-320	20 mm	6 mm
CS-1-325	25 mm	6 mm
CS-1-325-10	25 mm	10 mm
CS-1-330	30 mm	6 mm
CS-1-335	35 mm	6 mm
CS-1-335-10	35 mm	10 mm
CS-1-340	40 mm	8 mm
CS-1-345	45 mm	8 mm
CS-1-350	50 mm	8 mm
CS-1-350-10	50 mm	10 mm
CS-1-360	60 mm	10 mm
CS-1-365-13	65 mm	13 mm
CS-1-370	70 mm	10 mm
CS-1-375-13	75 mm	13 mm

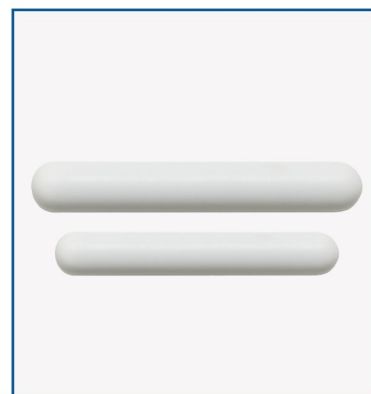
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## PTFE Plain Magnetic Stir Bars

- Plain PTFE magnetic stirring bars work like a cylindrical bar but they give more turbulence at low speeds



Catalog No.	Length	Diameter(mm)
CS-1-210-6	10 mm	6 mm
CS-1-212	12 mm	4.5 mm
CS-1-213-8	13 mm	8 mm
CS-1-215	15 mm	4.5 mm
CS-1-215-6	15 mm	6 mm
CS-1-215-8	15 mm	8 mm
CS-1-220	20 mm	6 mm
CS-1-220-7	20 mm	7 mm
CS-1-225	25 mm	6 mm
CS-1-225-8	25 mm	8 mm
CS-1-225-10	25 mm	10 mm
CS-1-225-7	25 mm	7 mm
CS-1-230	30 mm	6 mm
CS-1-230-7	30 mm	7 mm
CS-1-235	35 mm	6 mm
CS-1-235-7	35 mm	7 mm
CS-1-235-10	35 mm	10 mm
CS-1-240	40 mm	8 mm
CS-1-240-7	40 mm	7 mm
CS-1-245	45 mm	8 mm
CS-1-250	50 mm	8 mm
CS-1-250-10	50 mm	10 mm
CS-1-250-7	50 mm	7 mm
CS-1-260	60 mm	10 mm
CS-1-260-7	60 mm	7 mm
CS-1-260-8	60 mm	8 mm
CS-1-265-13	65 mm	13 mm
CS-1-270	70 mm	10 mm
CS-1-275	75 mm	13 mm
CS-1-280	80 mm	10 mm

## PTFE Cylindrical Magnetic Stir Bars

- ▶ They are suitable for a wide range of containers.
- ▶ The cylindrical magnetic stirrer bar is resistant to virtually all chemicals
- ▶ They have a plain design with rounded ends,
- ▶ Recommended for flat bottomed containers of an extensive variety



Catalog No.	Length	Diameter(mm)
CS-1-106	6 mm	3 mm
CS-1-108	8 mm	3 mm
CS-1-110-6	10 mm	6 mm
CS-1-2912	12 mm	3 mm
CS-1-112	12 mm	4.5 mm
CS-1-113-6	13 mm	6 mm
CS-1-113-7	13 mm	7 mm
CS-1-113-8	13 mm	8 mm
CS-1-113-10	13 mm	10 mm
CS-1-115	15 mm	4.5 mm
CS-1-115-6	15 mm	6 mm
CS-1-120-7	20 mm	7 mm
CS-1-120-8	20 mm	8 mm
CS-1-120	20 mm	6 mm
CS-1-125-5	25 mm	5 mm
CS-1-125	25 mm	6 mm
CS-1-2925	25 mm	8 mm
CS-1-125-10	25 mm	10 mm
CS-1-130-7	30 mm	7 mm
CS-1-130-8	30 mm	8 mm
CS-1-130	30 mm	6 mm
CS-1-135	35 mm	6 mm
CS-1-140	40 mm	8 mm
CS-1-140-7	40 mm	7 mm
CS-1-145	45 mm	8 mm
CS-1-150	50 mm	8 mm
CS-1-160	60 mm	10 mm
CS-1-170	70 mm	10 mm
CS-1-180	80 mm	10 mm
CS-1-125-8	125 mm	8 mm

## PTFE Magnetic Stir Bar Retrievers

- ▶ These stir bars are PTFE (Teflon) coated and appropriate for most chemistry applications
- ▶ Ideal for retrieving magnetic stirrer bars
- ▶ It can be employed with corrosive chemicals including acid and base
- ▶ PTFE Stirring Bars Retrievers have a permanent powerful magnet encapsulated in PTFE and supplied with a flexible PTFE rod.



Catalog No.	Description	Length	Ø Dia.	Model
CS-1-1013	PTFE Polypropylene Magnetic Stir Bar Retriever	350 mm	10 mm	Turbo
CS-1-566	PTFE Polypropylene Magnetic Stir Bar Retriever	350 mm	10 mm	Standard
CS-1-1016	PTFE Polypropylene Magnetic Stir Bar Retriever	450 mm	18 mm	Turbo



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