

Optimizer Inserts™ for 5mm Spinner Turbines - PEEK Edition

Engineered with high-performance PEEK (polyetheretherketone), these advanced adapters deliver all the versatility of our standard Optimizer Inserts™ with enhanced material properties for the most demanding NMR applications. The superior dimensional stability, exceptional chemical resistance, and enhanced durability of PEEK enable reliable performance across extended temperature ranges and harsh chemical environments.

Compatible Tube Diameters

1.5mm, 1.7mm, 2.0mm, 2.5mm, 3.0mm, 4.0mm, & 4.25mm O.D. NMR tubes

Spectrometer Compatibility

Available for Agilent/Varian, Bruker, and JEOL spinner turbine systems

Primary Applications

- Method development for sensitivity and resolution optimization
- Biological sample analysis with challenging matrices
- High salt concentration and buffered solution studies
- Variable temperature NMR studies with demanding thermal requirements
- Harsh chemical environments requiring superior resistance
- Sample volume optimization across seven tube sizes
- Premium alternative to multiple turbine systems

Operating Specifications

- Extended temperature range: -40°C to +250°C (variable temperature capability)
- Material: High-performance PEEK thermoplastic
- Enhanced chemical resistance to aggressive solvents and reagents
- Patent protection: U.S. Patent #7,728,593

Item No.	Tube Size (mm)	Spinner Type
5X1.5INS-PE-B	1.50	Bruker
5X1.5INS-PE-J	1.50	JEOL
5X1.5INS-PE-V	1.50	Agilent/Varian
5X1.7INS-PE-B	1.70	Bruker
5X1.7INS-PE-J	1.70	JEOL
5X1.7INS-PE-V	1.70	Agilent/Varian
5X2INS-PE-B	2.00	Bruker
5X2INS-PE-J	2.00	JEOL
5X2INS-PE-V	2.00	Agilent/Varian
5X2.5INS-PE-B	2.50	Bruker
5X2.5INS-PE-J	2.50	JEOL
5X2.5INS-PE-V	2.50	Agilent/Varian
5X3INS-PE-B	3.00	Bruker
5X3INS-PE-J	3.00	JEOL
5X3INS-PE-V	3.00	Agilent/Varian
5X4INS-PE-B	4.00	Bruker
5X4INS-PE-J	4.00	JEOL
5X4INS-PE-V	4.00	Agilent/Varian
5X4.25INS-PE-B	4.25	Bruker
5X4.25INS-PE-J	4.25	JEOL
5X4.25INS-PE-V	4.25	Agilent/Varian
10X1.5INS-PE-AV	1.50	Agilent/Varian
10X1.7INS-PE-AV	1.70	Agilent/Varian

Key Benefits

The PEEK Optimizer Insert system delivers premium analytical flexibility with superior material properties for the most demanding NMR applications. Enhanced temperature capability and exceptional chemical resistance enable sample volume optimization across challenging experimental conditions while maintaining precision performance and extending service life.

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