

BRUKER LABSCAPE CONSUMABLES, ACCESSORIES AND TOOLS

Bruker SampleJet™ Consumables

We've got you covered

Innovation with Integrity

Get the Best Results from your Automation Unit

With the SampleJet, NMR completely blends into the scenery of modern day lab automation, helping customers to efficiently handle their daily routine. The high-performance instruments are supported by high-throughput automation.

Combine your instrument with a cutting-edge Bruker SampleJet autosampler and the quality and performance of Bruker consumables designed and developed specifically for this system. The use of appropriate consumables is not only essential for reliable measurement results but also for the probe's safety and the performance of the sample changer.

With the Bruker liquid NMR consumables range you have a clear and reliable portfolio for your daily use. NMR tubes from Bruker can be used with all high-resolution NMR systems with no frequency-based restrictions.

Benefits

- Compatibility with Bruker systems for reliable measurement results
- Increased productivity
- Probe safety and sample changer reliability
- Cost saving and sustainable consumables solutions

Racked NMR Tubes with Open Coded Caps

Bruker offers single (1 x 96 tubes) and multiple rack (5 x 96 tubes) products, specifically created and produced to match the storage capacity and strict specifications of the SampleJet autosampler.

As standard, the product includes patented shaped caps with narrow angular tolerances, ECC200 coded to allow tracking of samples and experiments.

The caps are labeled with a 10 digit unique code, written both in a machine-readable 2D code and in human-readable numbers. The first 2 digits identify the tube diameters, the next 8 digits are a unique serial number.

The coded open caps are available for all probe dimensions supported by SampleJet.

Bruker caps are crafted from high-quality Orgalloy® plastic, offering excellent resistance to a variety of chemicals and NMR solvents such as CDCl₃, MeOD, and DMSO. It is advisable to prevent direct contact between the sample solution and the cap. While the caps are designed to securely seal the tubes, it is best to avoid long-term storage to prevent evaporation of the solvent. The mechanical strength of the product has been tested and validated from 4 °C to 60 °C.

Using Bruker coded caps offers several benefits:

- Unique identification of samples
- Possibility to use the 2D code based IconNMR workflow
- Ensuring compatibility when mixing different diameters in the SampleJet
- Certified to ensure quality and traceability to the raw material level.

1 rack x 96 tubes, 4" length, suitable for all frequencies

Material Number	Outer diameter	Wall thickness	Camber	Concentricity
Z112273	5 mm	0.38 mm	60 µm	30 µm
Z112272	3 mm	0.38 mm	60 µm	30 µm
Z106462	1.7 mm	0.2 mm	20 µm	No spinning
Z107504	1 mm	0.1 mm	20 µm	No spinning



Single rack (**Z112272**)

5 racks x 96 tubes, 4" length, suitable for all frequencies

Material Number	Outer diameter	Wall thickness	Camber	Concentricity
Z168405	5 mm	0.38 mm	60 µm	30 µm
Z168406	3 mm	0.38 mm	60 µm	30 µm
Z168407	1.7 mm	0.2 mm	20 µm	No spinning
Z168408	1 mm	0.1 mm	20 µm	No spinning



5 x racks

Unracked NMR Tubes With Closed Coded Caps

For simple refilling of the racks and open access shop, spare tubes (4" and 7" respectively) are available for 3 mm and 5 mm diameters. The products are certified to ensure quality and traceability to the raw material level.

100 x tubes and closed coded caps, 4" length, suitable for all frequencies

Material Number	Outer diameter	Wall thickness	Camber	Concentricity
Z172599	5 mm	0.38 mm	60 µm	30 µm
Z172597	3 mm	0.38 mm	60 µm	30 µm



5 mm 4" tubes and caps (**Z172599**)

100 x tubes and closed coded caps, 7" length, suitable for all frequencies

Material Number	Outer diameter	Wall thickness	Camber	Concentricity
Z172600	5 mm	0.38 mm	60 µm	30 µm
Z172598	3 mm	0.30 mm	60 µm	30 µm



3 mm 7" tubes and caps (**Z172598**)

Unracked NMR Tubes With Open Caps

100 x tubes and open coded caps, 4" length, suitable for all frequencies

Material Number	Outer diameter	Wall thickness	Camber	Concentricity
34100277	5 mm	0.38 mm	60 µm	30 µm
34105721	3 mm	0.30 mm	60 µm	30 µm

100 x tubes and open coded caps, 7" length, suitable for all frequencies

Material Number	Outer diameter	Wall thickness	Camber	Concentricity
34105722	5 mm	0.38 mm	60 µm	30 µm
34105723	3 mm	0.30 mm	60 µm	30 µm

Spare Caps

For simple refilling of the racks and for open access shop, caps are available for 3 mm and 5 mm diameters. Spare coded and uncoded caps for 3 mm and 5 mm tubes complete the SampleJet consumables portfolio.

100 x closed coded caps

Material Number	Ø	Color
Z106779	5 mm (4.97 mm ± 0.05 mm)	Purple
Z107163	3 mm (3 mm ± 0.05 mm)	Green



3 mm caps (Z107163)

100 x closed uncoded caps

Material Number	Ø	Color
Z105683	5 mm (4.97 mm ± 0.05 mm)	Purple
Z107474	3 mm (3 mm ± 0.05 mm)	Green



5 mm caps (Z105683)

100 x open uncoded caps

Material Number	Ø	Color
Z105912	5 mm (4.97 mm ± 0.05 mm)	Purple
Z107376	3 mm (3 mm ± 0.05 mm)	Green



3 mm caps (Z107376)

Special Caps

Coded caps for Standard Reference Samples

Material Number	Ø	Color
Z163895	5 mm (4.97 mm ± 0.05 mm)	Purple
Z163894	3 mm (3 mm ± 0.05 mm)	Green



5 mm caps (Z163895)

Cap Sealing

Our colored POM balls are designed to tightly seal tubes and simplify sample recognition. Perfect for environments where multiple users work with automation units.

The balls can be either used to mark one or few selected tubes or to mark a whole rack of tubes.

Sealing the caps with a ball has several **benefits** compared to other sealing methods:

- Sealed caps are as tight as Bruker caps without holes.
- The sealing process is fast, easy, reliable and repeatable.
- There is no remaining gap or hole like in a pierced membrane.
- The balls are made from a single solid structure with no bonding or surface coating or painting.
- The tubes remain clean, as they remain in the rack.
- The balls do not interfere with sample transport or matrix code label reading.
- The balls allow easy making of different tubes with various colors.



POM balls

100 x POM balls to tightly close SampleJet caps

Material Number	Color
Z147554	Traffic red
Z72497	Opaque white
Z147553	Azure blue
Z147552	Pastel orange
Z147555	Zinc yellow



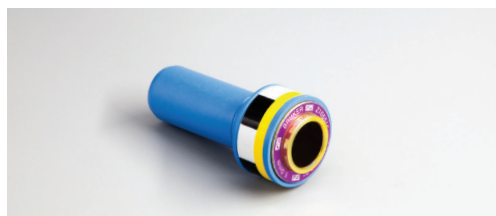
Marked caps with colored POM balls

Accessories

Shuttles

Material Number	Ø	Max. Temperature	Label color	Comment
Z105515	5 mm	150 °C	Purple	
Z179270	5 mm	150 °C	Purple	UHF Version
Z105909	3 mm	150 °C	Green	
Z179269	3 mm	150 °C	Green	UHF Version
Z106558	1.7 mm	150 °C	Gray	
Z107648	1 mm	150 °C	Black	

*UHF= ultra high field (≥ 800 MHz)



5 mm shuttle (Z105515)

Tools

Pinch tool

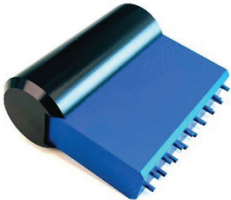
Material Number	Description
Z72498	POM balls pinch tool for closing SampleJet tubes

Multi pinch tool

Material Number	Description
H177028	Multi POM balls pinch tool for closing SampleJet tubes Supports simultaneously closing to 16 caps with balls



POM balls pinch tool (Z72498)



Multi pinch tool (H177028)

Hand scanner

Material Number	Description
1812134	USB Hand scanner able to read cap codes



Hand scanner (1812134)



Spare parts kit (Z106364)

Spare parts

Spare parts kit

Material Number	Description
Z106364	This kit contains 3 blue pincers with O-ring and 10 spare O-rings for use with the SampleJet Robot System

LabScape

We've got you covered

Bruker BioSpin
info@bruker.com

bruker.com

Bruker
bruker.com/

Online information
store.bruker.com



Bruker BioSpin is continually improving its products and reserves the right to change specifications without notice. Order No. T191822. © 04/2025 Bruker BioSpin.