

Inside Diameter ID of the Luer-Lock Syringe Opening - Tech Information

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Overview

The inside diameter (ID) of the opening on Chrom Luer-Lock Syringes is an important dimensional specification, especially for applications involving precise flow control, sample transfer, or interfacing with compatible fittings and accessories.

Measured Inside Diameter

Extensive measurements indicate that the inner diameter of the syringe opening consistently falls within the range of approximately 2.1 mm to 2.2 mm. This tolerance ensures reliable compatibility with standard Luer-Lock connections while maintaining consistent flow characteristics across syringe lots.

Application Considerations

A stable and predictable ID is critical for:

- Ensuring repeatable liquid transfer and flow rates
- Supporting consistent dead-volume characteristics
- Maintaining secure and leak-free Luer-Lock engagement
- Improving accuracy in chromatographic and analytical workflows

Users who require highly precise flow or connection dynamics should account for this ID range when selecting filters, adapters, or fittings.



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