

SLK-200 SPIN FINISH/OPU

Spin Finish Analyzer by Magnetic Resonance (NMR)

Textile: Artificial Fibers

High accuracy determination of OIL PICK-UP (OPU) content.

Capable of analyzing during the manufacturing.

Allows weighing and NON Weighing Method.



WEIGHING METHOD

Higher accuracy and repeatability. - Samples are automatically weighed.
Ideal for small amounts of samples.

MEASUREMENT 27cm ³ OF TEXTILE FIBER			
	REPEATABILITY (95%)	PRECISION (95%)	MEASUREMENT TIME (Sec.)
OIL %(*)	±0.01 %	±0.02 %	2 Min.

*Deviations decrease using more averages in a longer measurement.

NON WEIGHING METHOD

Allows analyzing more samples in less time. - The sample is not weighed.
Ideal for big amounts of samples.

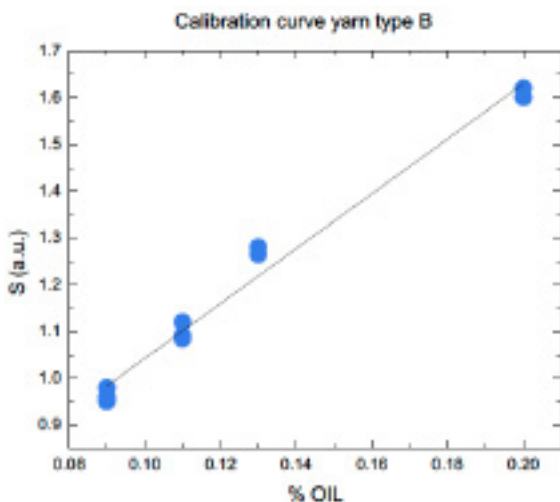
MEASUREMENT 27cm ³ OF TEXTILE FIBER approximately(**)			
	REPEATABILITY (95%)	PRECISION (95%)	MEASUREMENT TIME (Sec.)
OIL %(*)	±0.05 %	±0.01 %	2 Min.

*Deviations decrease using more averages in a longer measurement.

**In this methodology it is not weighed, the mass value is a reference of the amount of sample needed.

Features:

- Sample size: Ø40mm tubes (27cm³)
- Non-destructive testing.
- No sample preparation needed.
- Fast and accurate results: 2 min.
- Stable: No daily check requirements.
- Environment friendly: no chemicals or other supplies used.
- Small and light. Easy to mount and move.
- Low maintenance requirements.
- User friendly software.
- Worldwide support: Spinlock Online Helpdesk and Spinlock Global Support Network.



YARN TYPE B			
	Oil cont. Ref. (%)	Oil cont. SLK (%)	Difference (%)
Sample B 1	0.130	0.139	0.009
Sample B 1	0.130	0.137	0.007
Sample B 2	0.200	0.197	-0.003
Sample B 2	0.200	0.194	-0.006
Sample B 3	0.090	0.084	-0.006
Sample B 3	0.090	0.089	-0.001
Sample B 3	0.090	0.086	-0.004
Sample B 4	0.110	0.108	-0.003
Sample B 4	0.110	0.113	0.003
Sample B 4	0.110	0.113	0.003
	$\sigma =$		0.005

Application Abstract

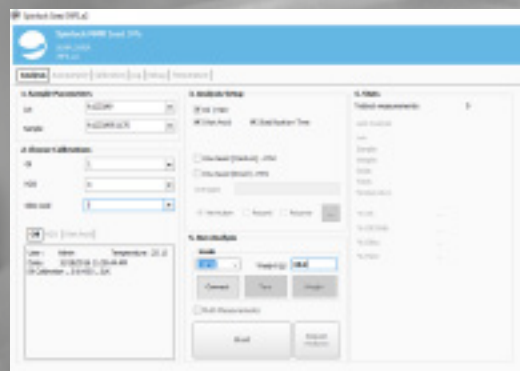
Spinlock has developed an analytical technique based on Nuclear Magnetic Resonance (NMR) spectroscopy for the determination of the Spin Finish content in textile fibers. This technology does not require sample preparation or use of solvents. It is a fast, ecological and non-destructive method. No technical knowledge is required to use the equipment.

The SLK-200 spectrometer can be configured to work in two different modes: Weighing and No Weighing mode, both with advantages.

The Weighing mode has higher precision and repeatability for measuring small amounts of samples. With the Non-Weighing mode, a considerable reduction in time is achieved, since this step in the determination process is avoided.

Spinlock SPIN FINISH 39FS Software

- ✓ Runs on a PC with MS Windows.
- ✓ Does not require a qualified operator.
- ✓ Displays results live and stores them in a database that can be easily exported on .csv, or .pdf formats.



Automation

SLK-AS-30 AUTOMATIC SAMPLER

Designed to completely automate the operation of the SLK 200.

The SLK-AS-30 Auto Sampler will pick up a sample from a module containing sample tubes, weigh it, and insert it in the Spinlock equipment for measurement. Then it returns the sample again to its original position or may further classify it on a different criterion.

Scalable Modules: Includes three 20-sample modules.




Technical Specifications

FREQUENCY OF OPERATION	11 Mhz
MAGNET	280 mT
POWER - AC VOLTAGE:	100-240 V 50 Hz
WEIGHT	50 kg
DIMENSIONS	43x39x29cm (16.9291x15.3543x11.4173 inch)
SAMPLE HOLDER	Teflon/Glass Ø 40 mm tubes



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