



NIUMAG

*More Than
Oil Content*



NMR Spin-Finish Analyzer

PQ001-Fiber

NMR Spin-Finish Analyzer

Quick

30s per test



New

Oil content of polyester staple fiber, moisture regain of viscose fiber nylon, amount of glue



More

Oil content moisture regain glue amount, resin content test



Range

Suitable for more than 16 fiber materials



Accurate

RSD≤3%



Fiber types

Polyester filament

Nylon

Aramid

silk

Spandex

Polyester staple

Viscose fiber

glass fiber

Cord fabric

carbon fiber

Polypropylene

wool

Vinylon

Accuracy

Accuracy-oil content (polyester staple)

SN #	NMR results	Chemical results	Deviation
1	0.51%	0.48%	0.03%
2	0.44%	0.40%	0.04%
3	0.41%	0.41%	0.00%
4	0.40%	0.45%	-0.05%
5	0.42%	0.44%	-0.02%
6	0.42%	0.41%	0.01%
7	0.40%	0.45%	-0.05%
8	0.42%	0.45%	-0.03%
9	0.45%	0.41%	0.04%
10	0.34%	0.41%	-0.07%
11	0.44%	0.39%	0.05%

Repeatability

Repeatability-oil content

Sample Name	1st	2nd	3rd	RSD
1 #	0.38	0.39	0.39	1.49%
4 #	0.54	0.54	0.53	1.07%
5 #	0.45	0.44	0.45	1.29%
8 #	0.39	0.38	0.38	1.50%
9 #	0.46	0.46	0.46	0.00%
10 #	0.36	0.35	0.35	1.63%
16 #	0.26	0.26	0.26	0.00%
17 #	0.49	0.5	0.5	1.16%
18 #	0.4	0.4	0.41	1.43%
20 #	0.36	0.37	0.37	1.57%
23 #	0.45	0.46	0.46	1.26%

- RSD of the repeatability of fiber oil content (oil content $\geq 1\%$) $\leq 1.000\%$;
- RSD of repeatability of fiber oil content ($0.5\% < \text{oil content} < 1\%$) $\leq 2.000\%$
- RSD of repeatability of fiber oil content ($0.1\% < \text{oil content} \leq 0.5\%$) $\leq 3.000\%$





Niumag

Niumag Analysis Corporation es una empresa de alta tecnología que se especializó en analizadores de imágenes (RMN pequeño y RMN de sobremesa) de bajo campo. La empresa se estableció en el 2003 y se dedica principalmente a la investigación, el desarrollo, la producción, las ventas y la aplicación de productos de RMN en el campo científico. Nuestros equipos son ampliamente utilizados en la industria del petróleo, materiales textiles, alimentos, campo agrícola, farmacia y polímeros, veterinaria, etc...



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