

# SetaCheck® Biodiesel SA5500-0

Rapid and precise measurement of Biodiesel in Diesel fuel

ASTM D8274

- 0.1% to 40% measurement range
- No dilution required, samples measured directly
- Less than 1 minute test
- Correlates with EN14078
- Unique Mid-IR technology
- Simple to use
- Bright, backlit screen displays the Biodiesel concentration (% by volume)
- User calibration available via PC software



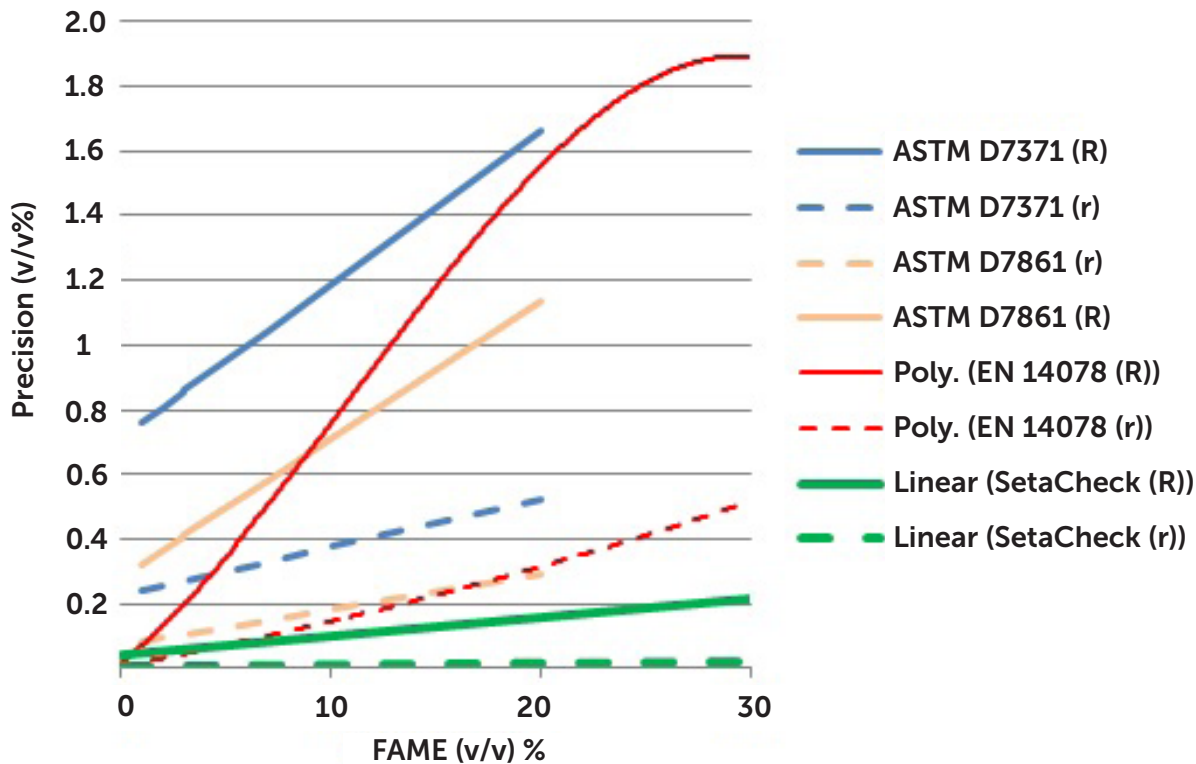
Technical Specifications	
Range	0.1% to 40%
Operating temperature	5 - 40 °C
Test duration	Less than 1 minute
Measuring units	% by volume
Sample volume	Approximately 2 ml
Number of tests	In excess of a hundred tests on a single charge
Charging	Micro USB
Power	Rechargeable Lithium Ion battery*
Size (HxWxD)	36 x 150 x 200 mm
Weight	1 kg

\* Meets IATA DGR (UN3481-IP1967)

- Determination of Biodiesel content of Diesel, heating oil and gas oil
- 'First foot' cargo inspections and potential loading contamination by Biodiesel
- Determination of Biodiesel level in distillate marine applications
- Lower detection limit of 0.1% for "de minimis" testing



## Predicted precision, SetaCheck Biodiesel versus other methods



## Field Results - SetaCheck v FTIR Biodiesel Blend Results

EPA Diesel and Dark B100 blend						
	Neat B100 Dark	5.0% B100	10.0% B100	15.0% B100	20.0% B100	Neat EPA Diesel
FTIR	100	4.43	9.9	14.6	18.7	0.0
	100	4.33	10.0	14.7	18.7	0.0
	100	4.39	9.9	14.7	18.7	0.0
SetaCheck	100	4.90	9.97	14.91	19.76	0.01
	100	4.90	9.97	14.92	19.78	0.01
	100	4.91	9.96	14.91	19.77	0.01

CARB Diesel and Light B100 blend						
	Neat B100 Light	5.0% B100	10.0% B100	15.0% B100	20.0% B100	Neat CARB Diesel
FTIR	100	4.37	9.8	14.4	18.3	0.0
	100	4.26	9.9	14.5	18.3	0.0
	100	4.37	9.9	14.5	18.4	0.0
SetaCheck	100	4.97	9.97	14.64	19.47	0.03
	100	4.97	9.99	14.66	19.44	0.03
	100	4.97	9.98	14.66	19.47	0.03