



NIRS DS2500 Petro Analyzer

The easy way to measure key quality parameters in fuels

HIGHLIGHTS

- Robust and compact instrument
- Pre-calibrated for gasoline, diesel and kerosene
- Chemical and physical parameters

Measure key quality parameters of fuels in less than a minute

RON, MON, Cetane Index and many more – with the NIRS DS2500 Petro Analyzer you can measure key quality parameters of petrochemical products in less than a minute with no sample preparation required at all. The NIRS DS2500 Petro Analyzer package contains all you need to get started.

Start immediately thanks to pre-calibrations

NIRS (Near-Infrared Spectroscopy) is a secondary method and requires matrix-specific calibration models. The NIRS DS2500 Petro Analyzer is pre-calibrated for gasoline, diesel and kerosine based on real petrochemical product spectra. Unpack, install, start measuring – that's it – no prior model development needed.

Robust Design

Due to its robust and compact design, the NIRS DS2500 Petro Analyzer can be used in the laboratory or at specific locations in the plant. This will simplify your sample logistics and you can measure where you want.

Results within one minute

The NIRS DS2500 Petro Analyzer provides results for several key parameters within one minute and does not require any chemicals. This speeds up analysis time and reduces running costs.





Easy to use

Our intuitive Vision Air software makes using the NIRS DS2500 Petro Analyzer easy to use. Shift personal will find the routine user mode so simple that hardly any time for familiarization is needed: Two clicks from selecting the method, starting the measurement to getting a clear pass/fail result is all it takes.

Straightforward administration of users and SOPs

Authorized managers can be given exclusive access to the manager mode in Vision Air. This mode is used to manage instrument settings, create or change SOPs and review data.

Pre-calibration and parameter ranges included with the NIRS DS2500 Petro Analyzer

Pre-calibration	Part Nr.	Parameters	Range
Gasoline	6.6072.306	RON	81 – 100
		MON	81 – 88
		Anti-Knock Index	85 – 94
		Aromatics	20 – 45 %
		Benzene	0.15 – 0.70 %
		Density	0.74 – 0.76 g/cm ³
		Olefins	0 – 25 %
		Oxygen	0.2 – 2.0 %

Diesel	6.6072.305	Cetane index	46 – 77
		Cetane number	45 – 60
		Density	0.82 – 0.89 g/cm ³
		CFPP	-22 to +19 °C
		T95	325 – 410 °C
		Flash Point	56 – 120 °C
		Viscosity	2 – 5.5 cSt
Kerosene	6.6702.307	Cetane index	36 – 50
		API gravity	38 – 48 °C
		Aromatics	10 – 25 %
		T10	158 – 200 °C
		T20	165 – 205 °C
		T50	180 – 220 °C
		Density	0.78 – 0.83 g/cm ³
		Flash Point	38 – 65 °C
		Freeze Point	-65 to -40 °C
		Hydrogen	13.2 – 14.2 %
		Saturates	75 – 90 %
		Viscosity at 20°C	3 – 7 cSt

ORDERING INFORMATION

2.929.2000	NIRS DS2500 Petro Analyzer
	Comprised of:
2.929.0010	DS2500 Liquid Analyzer
6.7492.020	DS2500 Holder 8mm disposable vials
6.7402.000	Disposable Vials, 8 mm diameter, 250 pcs
6.6072.208	Vision Air Complete
See below	Pre-calibration (choose 1)
	Pre-calibrations for Petro Analyzer
6.6072.305	Pre-calibration for diesel analysis
6.6072.306	Pre-calibration for gasoline analysis
6.6072.307	Pre-calibration for kerosene analysis
	Recommended standard
6.7494.000	DS2500 Liquid Wavelength Standard
	Optional accessories
6.7402.020	Disposable Vials, 8 mm diameter, 250 pcs