

NABLEND

REFERENCE AND CHECK FUELS BLENDING FOR OCTANE AND CETANE NUMBER TESTING



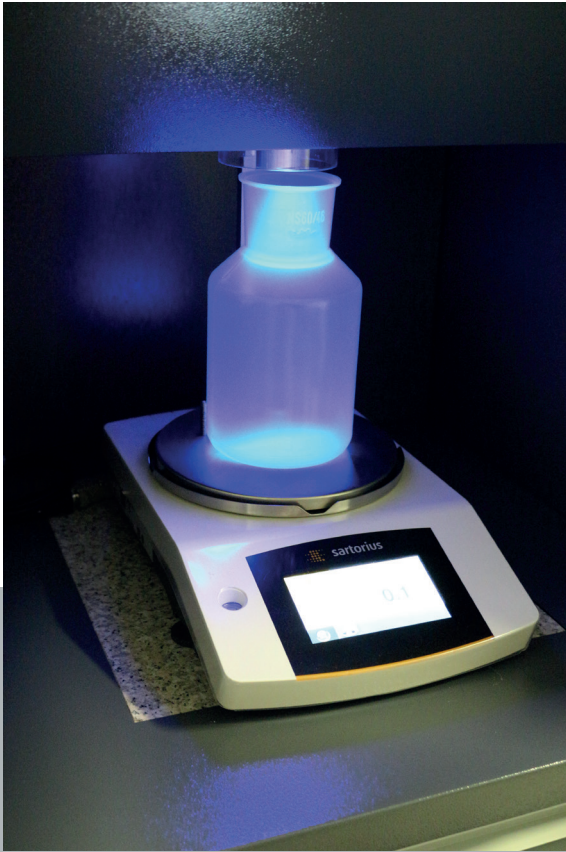
STANDARDS

ASTM D 613, D 2699, D 2700, ISO 5163, ISO 5164, EN 590 and related methods.
Compatible with BASF and CFR engines

SCOPE

The octane and cetane are one of the most important properties of gasoline and diesel fuels showing the performance of both types of engines. The methods for determining the octane & cetane numbers is described in above standards methods and is based on comparing a fuel in the engines under standard conditions with reference fuels of known ratings.

NABLEND is used for the preparation of reference and check fuel for octane and cetane number determination. Normalab has been designing and manufacturing petroleum testing instruments and glassware since 1963.



« AUTOMATIC BLENDING BY WEIGHT FOR CETANE AND OCTANE MEASUREMENT »

SPECIFICATIONS


- Reference and check fuel blending.
- Built-in touch screen computer and printer
- 5,6 pouce resistive touch screen
- Real-time monitoring / Display
- Free blending function for Research and special fuels blending
- Excellent accuracy and speed ($\pm 0,1$ ON/CN - 2 min / 400 mL)
- N° of Tank : 6 tanks, Volume 10 litres each
- Recall test results
- No effect of temperature on the results
- Gravimetric Measurement by Precision Balance



KEY POINTS

- Safe and clean
- Time saving
- High accuracy
- Results traceability

QUALITY CONTROL

NABLEND 8877  **NORMALAB**
AUTOMATIC REFERENCE FUEL BLENDING UNIT

OCTANE BLENDING SETUP (IO+TEL)

IO + IO+TEL	IO + nH	IO + 80/20	CHECK FUELS (TO + IO + nH)	BLEND
			ASTM D 2699 / 2009	OCTANE
			MOTOR	CETANE
			RESEARCH	FREE

Target octane number (100.00 - 120.34): **115.04**

Target volume (100ml - 1000ml): **480.0**

Blending components:


	(ml)	(g)
Iso-octane	256.36	177.4
IO+TEL	223.77	154.4

BALANCE: OK VESSEL: OK TANKS: 1 2 3 4 5 VALVES: 1 2 3 4 5
OCTANE BLENDING loggedinremote user:Manufacturer date & time: 2020/09/03 16:01

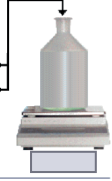
The results are stored in a database and certificates can be printed for all blends. The certificates will contain all necessary data including :

- Serial number of the blend given by computer
- Name of the operator
- Date and time
- Effective octane/cetane number and volume
- Targeted octane/cetane number and volume
- Consumption of blending components
- Password management system (6 levels)

OPERATION

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AUTOMATIC REFERENCE FUEL BLENDING UNIT

OCTANE BLENDING (IO+TEL)

Target volume (ml)	Effective volume (ml)		START
Iso-octane: 256.36			STOP
IO+TEL: 223.77		AIR DISCHARGE	
			ACCEPT
Octane n: 115.04		BACK	
Volume (ml): 480.00			

BALANCE: OK VESSEL: OK TANKS: 1 2 3 4 5 VALVES: 1 2 3 4 5
OCTANE BLENDING loggedinremote user:Manufacturer date & time: 2020/09/03 16:09

After selection the standard method and giving the blending parameters there is nothing else to do just press: **START BLENDING**. A micro controller independently controls the blending process.

Using the built-in touch screen ,the operator will only type the target octane/Cetane number and sample volume and the blending unit will automatically prepare and certify the reference fuel with an accuracy of 0.1 ON or CN.

The database will not only store the blending parameters, but the whole history of logins, operation, remote database access, remote service access and internal technological events.

TECHNICAL FEATURES

Nablend includes one dedicated line for each sample type (no pollution).

- Real-time Monitoring of Fuel Liquid Level in Tank (autorefill)
- Pumps calibration
- Dosing pumps accuracy 0,01 g/stroke
- Automatic refill, directly from the drums

AUTOMATIC REFILL MODE

The tanks are filled, when the level switches installed in the tanks will indicate **LOW LEVEL**. The filling will be stopped at the **HIGH LEVEL** signal. The volume of tanks is 10 liters each (in option).



ORDERING INFORMATION

The simplicity and reliability of the construction, make the NABLEND units extremely suitable for long -term error free operation under the special conditions of an octane laboratory. The free blending capability creates opportunities for different application, like special fuel blending for special engines.

52300

Scope of delivery:

NABLEND is delivered ready to use with:

- 3 plastic vessels of 1 liter for blends P/N 52001
- 1 electronic balance
- 1 Printer paper
- 1 Printer ink ribbon
- 1 Funnel

OPTION

Optimization of balance for higher weight and accuracy 0,01 ON/CN on demand

Site requirements:

- Power supply: 80-250 V, 50/60 Hz, 65W
- Dimension: (W) 610 x (D) 820 x (H) 1650 mm
- Weight: 160 kg (with empty tanks)

SUMMARY

Cabinet	Industrial construction	Blending accuracy	±0,1 ON/CN when 400 mL of blend is made
Ventilation	60 liter / min	Electronic balance linearity	Less than 0,1g in the range of 100-1000g
Containers	6*10 liters		



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