

ARV TECH

AIR RELEASE PROPERTIES OF OILS IMPINGER METHOD



STANDARDS

ASTM D 3427, IP 313, ISO 9120 , DIN 51381, NFT 60149 and related methods.

SCOPE

This test method covers the ability of turbine, gear and hydraulic oils to separate entrained air. The instrument records the time required to reduce the air entrained in the oil to 0.2 % of volume.

Normalab has been designing and manufacturing petroleum testing instruments and glassware since 1963.



« AUTOMATIC INTEGRATED SOLUTION »

SPECIFICATIONS

- Benchtop instrument
- Resistive color touch screen 8,4"
- User friendly software
- Temperature range from ambient to 85°C
Sample temperature: 25°C, 50°C, 75°C, temperature can be set through the interface
- Air Pressure measurement by needle gauge (0-60 Kpa)
- Air temperature measurement by Pt100 probe and ASTM 12C thermometer
- Quick and easy positioning of the glassware
- Plunger detection



CONNECTIVITY

- 2 USB ports
- 2 RS232 ports
- 1 Ethernet port



ACCESSORIES

The ARV Tech is delivered ready to use. It includes a circulating bath capable of maintaining the test cell at required temperatures. Additional accessories might be needed as:

- Oven (for heating sample to 10°C above the test temperature)
- Drying tower

SAFETY

The device includes a complete safety system:

- Audible alarm at the end of the test
- Overheating safety
- Overpressure cut off
- Warning light if no air flow

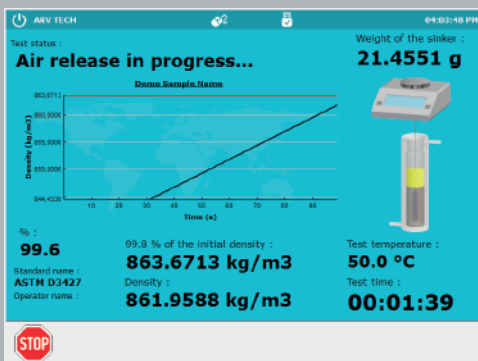
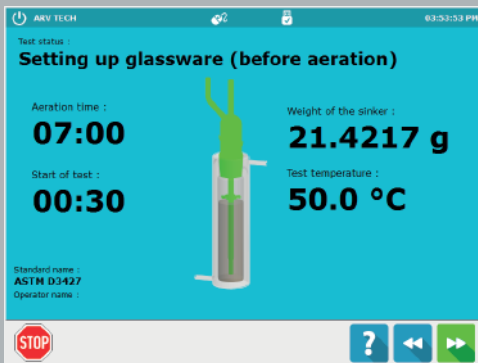
SOFTWARE FEATURES

- Backup and software update by USB
- Keyboard, mouse, barcode reader and printer connection
- Data storage > 1000 results
- The graph show in real time the weight evolution

USER INTERFACE

User-friendly device with digital screen and quick access keypad for an easy configuration of all parameters:

- Data export though USB, LIMS or e-mails
- User and password settings
- Data transfer in expected format



Start test

Test Information

Program file

Sinker

Balance

Test short description

Sample name :

Demo Sample Name

Batch number :

Test temperature :

50.0 °C

Operator name :

Program file name :

ASTM D3427 - PR001

Standard name :

ASTM D3427

Sinker name :

SINKER_001

Balance name :

ADAM Nimbus NBL 124

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ORDERING INFORMATION

Air release properties of petroleum oils by Impinger method

942900

The **ARV Tech** apparatus is including thermostatic circulator, necessary tubing and glass plunger. Analytical balance with special connection is included for plunger hanging.

Scope of delivery:

ARV Tech is delivered with:

- Thermostatic circulator for impinger vessel
- Impinger vessel (P/N 12627)
- Glass plunger 10 ml with platinum wire for density measurement (P/N 12629)
- Pressure gauge
- ASTM 12 C Mercury free thermometer (without certificate*) (P/N 11499)
- Electronic temperature controller
- Balance (P/N 0569100004)
- Ticket printer
- Pair of gloves (P/N 9417444)

* Without certificate, calibration on request

Site requirements:

- Power supply: 230 V - 50/60 Hz - 16 A
- Dimensions: (W) 750 x (D) 300 x (H) 568 mm
- Weight: 60 kg

SUMMARY

Temperature range	Ambient to 85°C	Balance	52 g
Sample temperature	25°C / 50°C / 75°C dedicated temperature can be set through the interface	Oil-free air Maximum pressure	0.5 Bar - 7 PSI - 50 kPa
Temperature accuracy	+/- 0,1°C		



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