

Nitrogen Solubility Index (NSI)

test method

Determines the dispersible nitrogen in soybean products under the conditions of the test. In contrast to the alternate fast-stir method for Protein Dispersibility Index (PDI), AOCS Official Method Ba 10-65, the slower stirring technique used in this method will give generally lower results. Applicable to ground soybeans, whole or ground full-fat and defatted soy flours and grits, and soy-bean meal.

nitrogen solubility apparatus

- Conforms to AOCS Ba 10-65
- Six sample testing capability
- Microprocessor controlled high accuracy temperature control
- Digital Tachometer for adjustable stirrer speed

Constant temperature bath with stirrers for Nitrogen Solubility tests. Stirs sample-water mixtures up to 120 RPM and controls temperature with $\pm 0.5^{\circ}\text{C}$ ($\pm 1^{\circ}\text{F}$) stability. Immerses test beakers at the proper depth per AOCS specifications.

Microprocessor PID control provides quick temperature stabilization without overshoot, and the bath is protected by an over-temperature control circuit that interrupts power should bath temperature exceed a programmed cut-off point. Dual LED displays provide actual and setpoint temperature values in $^{\circ}\text{C}/^{\circ}\text{F}$ format. Communications software (RS232, etc.), ramp-to-set and other enhanced features are available as extra cost options. Contact your Koehler representative for information.

Stainless steel stirrer paddles are driven by a ball bearing type motor through an improved pulley driveroller bearing arrangement. Paddles can be raised and lowered for placement of sample beakers in the bath. Stainless steel bath includes perforated support shelf for beakers. Long-lasting polyester drive belt improves reliability. Drive train components are protected by a removable steel guard. All exterior surfaces have stainless steel or chemical resistant polyurethane enamel finishes.

ordering information

| catalog no. | description |
|-------------|--|
| K30162 | Nitrogen Solubility Apparatus, 115V 60Hz |
| K30163 | Nitrogen Solubility Apparatus, 220-240V 50Hz |
| K30164 | Nitrogen Solubility Apparatus, 220-240V 60Hz |

accessories

| | |
|--------------|------------------------------------|
| 332-002-006 | Test Beaker, 400mL |
| 250-000-118C | ASTM 22F Thermometer. Range: 30°C |
| 373-230-003 | Electronic Balance, 0.01g Accuracy |



K30162 Nitrogen Solubility Apparatus

specifications

Conforms to the specifications of:

AOCS Ba 11-65

Testing Capacity: Six (6) 400mL sample beakers

Temperature Range: Ambient to 104°C (220°F)

Temperature Control Stability: $\pm 0.5^{\circ}\text{C}$ ($\pm 1^{\circ}\text{F}$)

Stirring Speed: Adjustable from 0 to 120 RPM

Bath Medium: 41.6L (11 Gal) White Technical Oil

Electrical Requirements

115V 60Hz

220-240V 50Hz

220-240V 60Hz

Dimensions lwxh,in.(cm)

32.75x14.25x27 (83x36x69)

Net Weight: 79 lbs (35.8 kg)

Shipping Information

Shipping Weight: 150 lbs (68 kg)

Dimensions: 16.2 Cu.ft.