

## NEPS AND TRASH INDICATOR

# NATI ADVANCED



NATI was designed to measure and classify neps & trash, to improve and predict yarn quality, to increase efficiency of carding and combing operations, and to reduce maintenance costs and overheads. Its usefulness in programming card-clothing grinding and card-wire replacement is beyond compare.

NATI gained its popularity due to its outstanding performances becoming an industry benchmark, an essential tool for any size of cotton spinning mills.

NATI ADVANCED is a special version primarily designed to be linked to CONTEST-F2 (high volume cotton testing equipment) but it can be used as stand-alone unit as well.

The stand-alone setting allows the testing of both the cotton and the synthetic fibres.

# NATI ADVANCED

CODE 3280C

## Main features

- measures neps, seed coat neps, trash and dust (in raw cotton, sliver and roving)
- results classification for RAW COTTON: NEPS [ $>0.5$  mm], NEPS [ $>0.7$  mm], TRASH [ $>0.25$  mm], DUST [ $>0.15$  mm] and SEED COATS [ $>1.0$  mm]
- results classification for SLIVER COTTON: NEPS [ $>0.5$  mm], NEPS [ $>0.7$  mm], NEPS [ $>1.0$  mm], DUST [ $>0.15$  mm] and SEED COATS [ $>1.0$  mm]
- results classification for SYNTHETICS: NEPS [ $>0.5$  mm], NEPS [ $>0.7$  mm], NEPS [ $>1.0$  mm], TRASH [ $>0.50$  mm], DUST [ $>0.25$  mm]
- optic measuring system
- testing speed: 1cm/sec. It takes only 1 min to process 1g of raw material (5 times faster, compared to other similar equipment)
- recommended sample weight: 2g for sliver and 0,5g for raw material
- for slivers, automatic execution of multiple tests on the same sample without operator attendance
- user friendly touch screen; for operation, it does not require any particular skill or ability
- large fiber waste box (can accommodate 6-7m of sliver or 30-35g of raw cotton) and trash box for contaminants collection
- internal memory and USB port for data saving (exportable in Excel format)
- built-in auto diagnosing microprocessor
- thermal mini printer connection available via built-in serial port RS232
- the use of electronic balance (accuracy: 0,01g) is required
- 3 available testing modes:
  - cm/test (recommended for slivers)
  - gram/test
  - gram/sample
- easily transportable
- opening roller for cotton and synthetics included
- very good correlation with international Neps/gram statistics
- connectivity with CONTEST-F2 and unique data management system and data storage

Unlike the traditional NATI, NATI ADVANCED does not require the R.C.S. (Raw Cotton Selector) for material preparation.



NATI ADVANCED - REPORT					
Mesdan S.p.A. - ITALY					
Sample name:		TEST			
Test time:		03/03/2025		10:58	
RAW COTTON (0.5gr)					
Test No.	DUST >0.15	TRASH >0.25	SCNeps >1.0	NEPS >0.5	NEPS >0.7
1	267	55	28	162	46
2	376	62	22	174	49
3	221	33	16	166	47
4	369	89	38	174	55
MEAN	308.3	59.8	26.0	169.0	49.3
STD	76.5	23.0	9.3	6.0	4.0
CV%	24.84	38.63	36.08	3.55	8.18

Example of NATI ADVANCED report referred to a group of 5 tests.



## DIMENSIONS / POWER SUPPLY

Weight: 40 kg  
 Dimensions: (L) 400 x (W) 379 (H) 700 mm  
 Power supply: 115 Vac or 230 Vac - 50 Hz or 60 Hz, to be specified when ordering  
 Air supply: not required  
 Noise: < 70 dB

## OPTIONAL

Mini thermal printer	code 3280A.136
Trolley	code 3280.900
Electronic high precision balance	code 165.708

Photographs and descriptions of the present leaflet have to be considered as purely indicative and not binding