



PELLET DURABILITY TESTER

Seedburo's Pellet Durability Tester utilizes tests developed by Kansas State University to predict the amount of fines that will exist in pellets at feeding time. This is accomplished by the use of a specially designed pellet tumbler which will duplicate the amount of breakage that normally occurs from the time the pellets are expelled until they are consumed by the animal.

The results of the tests are interpreted as a standard measure of quality which is referred to as the Pellet Durability Index (PDI). The test is simple to perform and requires a minimal amount of equipment.



Uses & Benefits

- Duplicates the amount of breakage that normally occurs
- Provides accurate, on-the-spot results
- Recognize and improve manufacturing procedures
- Utilizes procedures developed by Kansas State University
- Constructed of high quality materials

Screen Sizes for Pellet and Crumbles Durability Tests

Diameter of Pellets or Crumbles		Required Screen Size		
mm	Inch	Size*	mm	Inch
Crumbles	Crumbles	No. 12	1.7	0.066
2.4	0.094 (3/32)	No. 10	2.0	0.079
3.2	0.125 (1/8)	No. 7	2.8	0.111
3.6	0.141 (9/64)	No. 6	3.4	0.132
4.0	0.156 (5/32)	No. 6	3.4	0.132
4.8	0.188 (3/16)	No. 5	4.0	0.157
5.2	0.203 (13/64)	No. 4	4.8	0.187
6.4	0.250 (1/4)	No. 3.5	5.7	0.223
7.9	0.313 (5/16)	0.265	6.7	0.265
9.5	0.375 (3/8)	5/16	7.9	0.313
12.7	0.500 (1/2)	7/16	11.1	0.438
15.9	0.625 (5/8)	0.530	13.5	0.530
19.0	0.750 (3/4)	5/8	15.9	0.625
22.2	0.875 (7/8)	3/4	19.0	0.750
25.4	1.00 (1)	7/8	22.2	0.875

*American Society for Testing and Material, Standard E11-87, Specification for Wire-Cloth Sieves for Testing Purposes.

Specifications:

Features: 1/8 HP, 115/230 Volt, 50/60 Hz
Single Phase, TEFC Motor.

Actual Dimensions (For 2-Compartment Model):
28" W x 15" D x 20" H, Net Weight: 85 lbs.

Shipping Dimensions (For 2-Compartment Model):
38" W x 22" D x 26" H, Shipping Weight: 115 lbs.

Actual Dimensions (For 4-Compartment Model):
45" W x 15" D x 20" H, Net Weight: 115 lbs.

Shipping Dimensions (For 4-Compartment Model):
52" W x 22" D x 26" H, Shipping Weight: 155 lbs.

Instructions:

1. Secure a representative sample.
2. Remove broken pellets from sample with appropriate hand sieve.
3. Weigh out 500 grams of screened sample.
4. Tumble 500 grams of screened pellets for 10 minutes.
5. Re-screen and weigh whole pellet sample.
6. Compute Pellet Durability Index by dividing the weight of all pellets by 500 and multiplying by 100.

