

Pellet Durability Tester

Seedbuero's Pellet Durability Tester utilizes a test method developed by Kansas State University to predict the amount of fines produced by handling pellets before feeding time. This is accomplished using a specially designed pellet tumbler which duplicates 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 (P.D.I.). The test is simple to perform and requires a minimal amount of equipment. The procedure:

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 pellet sample
5. Re-screen and weigh whole pellet sample
6. Compute Pellet Durability Index by dividing the weight of the whole pellets by 500 and multiplying by 100

Seedbuero offers a Four-Compartment Pellet Durability Tester and a Two-Compartment Pellet Durability Tester to cover all lab and office size requirements.

The unit features a 1/6HP, 115/230V, 50/60Hz, Single Phase, TEFC Motor. **PDT:** Net wt: 115 lbs, Actual dims: 14" (L) x 45" (W) x 19" (H), Ship wt: 155 lbs, Ship dims: 48" (L) x 17" (W) x 25" (H). **PDT2:** Net wt: 87 lbs, Actual dims: 22" (L) x 14" (W) x 19" (H), Ship wt: 127 lbs, Ship dims: 28" (L) x 24" (W) x 29" (H).

Pellet Durability Tester Options

- Four Compartment Pellet Durability Tester, 110V, 50/60Hz..... **No. PDT**
- Four Compartment Pellet Durability Tester, 220V, 50/60Hz.....**No. PDT/A**
- Two Compartment Pellet Durability Tester, 110V, 50/60Hz**No. PDT2**
- Two Compartment Pellet Durability Tester, 220V, 50/60Hz... **No. PDT2/A**

Recommended Accessories

- Riffle Type Divider**No. R66**
See page 39 for other sizes.
- Scout Pro Scale, 620g x 0.1g with Square Platform.....**No. SPX621**
- Polyethylene Sample Bags, 8 1/2" (W) x 18" (L) x .003" Thick..... **No. 622**
See page 57 for other sizes.
- See pages 51 for the Scout Pro Scale SPX621, See page 46 for U.S. Sieves*



U.S. Sieves

Seedbuero U.S. Sieves

The U.S. Sieves are made of wire mesh material designed to conform to specifications set by the A.S.T.M. (American Society of Testing and Materials). Sieves are available in 8" or 12" diameter. Each sieve made with your choice of the following: brass frame/brass wire cloth, brass frame/stainless wire cloth or stainless frame/stainless cloth. Frames are "Skirted" to nest together. See **page 46** for a complete list.

Screen Sizes for Durability Tests			
Pellet or Crumble Size		Required Screen Size	
Fraction	Decimal Equiv.	Part No.	Decimal Equiv.
3/32"	0.0938	No. 12BB8F	0.0661
1/8"	0.125	No. 10BB8F	0.0787
9/64"	0.1406	No. 7BS8F	0.111
5/32"	0.1563	No. 6BS8F	0.132
3/16"	0.1875	No. 5BS8F	0.157
13/64"	0.2031	No. 4BS8F	0.187
1/4"	0.25	No. 3.5BS8F	0.223

Screen Sizes for Durability Tests (Continued)			
Pellet or Crumble Size		Required Screen Size	
Fraction	Decimal Equiv.	Part No.	Decimal Equiv.
5/64"	0.3125	No. .265BS8F	0.265
3/8"	0.375	No. 5/16"BS8F	0.3125
1/2"	0.5	No. 7/16"BS8F	0.4375
5/8"	0.625	No. .530BS8F	0.53
3/4"	0.75	No. 5/8"BS8F	0.625
7/8"	0.875	No. 3/4"BS8F	0.75
1"	1	No. 7/8"BS8F	0.875



Left to right: PDT-BALLS, PDT-CLEANER, PDT-AGENT

Sieving Aid, Cleaning Brushes and Balls

When using the Seedbuero sieves with a Dura Tap testing sieve shaker found on **page 45**, remember to use the correct amount of cleaning agent, brushes and cleaning balls per sieve in your sieve arrangement. This aids in determining your particle size analysis.

- Sieving Agent (High Purity Silicon Dioxide Powder)**NO. PDT-AGENT**
- Cleaning Brushes (White Cleaner Bristles, pkg. 10).....**NO. PDT-CLEANER**
- Cleaning Balls (5/8", pkg. 40)..... **NO. PDT-BALLS**