

Technical Bulletin

BioFresh™ premium bedding products pursue the science of quality care with improved soft cellulose beddings and pelleted beddings. BioFresh™ beddings deliver better absorbency by weight than other leading substrates, and our **Performance Bedding** (low density cellulose pellets) and Natural **Comfort Bedding** deliver best-in-class ammonia odor control.

ABSORBENCY BY WEIGHT

Product Name	Instantaneous Absorbency <i>g saline / g sample after 60 sec.</i>	Absorbency Over Time <i>g saline / g sample after 1 hour</i>
BioFresh™ Comfort Bedding (Natural)	4.0	4.9
BioFresh™ Performance Bedding 1/8"	2.4	2.6
Aspen Shavings	1.9	2.0
Beta Chip	1.4	1.8
Bed o Cob 1/8"	0.8	1.3
Bed o Cob 1/4"	0.7	1.2

AMMONIA ODOR CONTROL

Product Name	Hours as Used <i>NH3 < 40ppm</i>
BioFresh™ Performance Bedding 1/8"	132
Beta Chip	96
Aspen Shavings	96
BioFresh™ Comfort Bedding (Natural)	72
Bed o Cob 1/8"	72
Bed o Cob 1/4"	72

Ammonia is tested in a closed environment at a controlled temperature of 78° F. The bedding or litter is inoculated in a closed container with a quantity of laboratory collected and standardized small animal urine. A specific volume of air is sampled from the headspace of the closed container on a regular basis using gas analyzer tubes and the resultant data is graphed to determine rate and level of ammonia generation.

DUST LEVELS

Product Name	g of dust/10g sample
BioFresh™ Performance Bedding 1/8"	0.003
Bed o Cob 1/4"	0.009
BioFresh™ Comfort Bedding (Natural)	0.026
Aspen Shavings	0.355
Bed o Cob 1/8"	0.800
Beta Chip	0.998

LOWER DENSITY PELLETS MEANS LIGHTER BAGS

Product Name	Density (lbs/ft ³).	Weight of a 1.25 ft ³ Bag (lbs)
BioFresh™ Performance Bedding 1/8"	10.4	13.0
Bed o Cob 1/4"	22.1	27.6
Bed o Cob 1/8"	28.2	35.2

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INSTANTANEOUS ABSORBENCY BY BEDDING VOLUME

Product Name	Instantaneous Absorbency <i>g saline / in³ sample measured 60 sec. after insult</i>	1/4" fill 21.6 in ³ <i>g saline</i>	1/2" fill 43.1 in ³ <i>g saline</i>	3/4" fill 64.7 in ³ <i>g saline</i>	1" fill 86.3 in ³ <i>g saline</i>
BioFresh™ <i>Performance Bedding</i> 1/8"	6.57	141.6	283.2	424.7	566.3
BioFresh™ <i>Comfort Bedding</i> (Natural)	6.24	134.5	269.1	403.6	538.2
Bed o Cob 1/8"	5.84	126.0	252.0	378.0	504.0
Beta Chip	4.86	104.8	209.6	314.4	419.2
Bed o Cob 1/4"	3.77	81.4	162.8	244.1	325.5
Aspen Shavings	1.88	40.6	81.2	121.8	162.4

ABSORBENCY OVER TIME BY BEDDING VOLUME

Product Name	Absorbency Over Time <i>g saline / in³ sample measured 1 hour after insult</i>	1/4" fill 21.6 in ³ <i>g saline</i>	1/2" fill 43.1 in ³ <i>g saline</i>	3/4" fill 64.7 in ³ <i>g saline</i>	1" fill 86.3 in ³ <i>g saline</i>
Bed o Cob 1/8"	9.62	207.4	414.7	622.1	829.4
BioFresh™ <i>Comfort Bedding</i> (Natural)	7.59	163.6	327.2	490.8	654.4
BioFresh™ <i>Performance Bedding</i> 1/8"	7.11	153.4	306.8	460.1	613.5
Bed o Cob 1/4"	6.97	150.2	300.5	450.7	601.0
Beta Chip	6.29	135.7	271.5	407.2	542.9
Aspen Shavings	1.98	42.7	85.4	128.2	170.9

All BioFresh™ products are made in the USA.