

**REPORT OF ANALYSIS**

Lab Number: S00391

Sample ID: Mattress Fluff 5/12/20

| Proximate Analysis | As Received wt% | Moisture Free wt% | Moisture & Ash Free wt% | ASTM Method | Date Analyzed | Analyst |
|--------------------|-----------------|-------------------|-------------------------|-------------|---------------|---------|
| Moisture           | 0.91            | *****             | *****                   | D7582       | 5/19/2020     | MP      |
| Ash                | 4.57            | 4.61              | *****                   | D7582       | 5/19/2020     | MP      |
| Volatile Matter    | 82.99           | 83.75             | 87.80                   | D7582       | 5/19/2020     | MP      |
| Fixed Carbon       | 11.53           | 11.64             | 12.20                   | calculated  |               |         |
| Total              | 100.00          | 100.00            | 100.00                  |             |               |         |

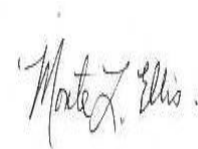
| Ultimate Analysis | As Received wt% | Moisture Free wt% | Moisture & Ash Free wt% | ASTM Method | Date Analyzed | Analyst |
|-------------------|-----------------|-------------------|-------------------------|-------------|---------------|---------|
| Moisture          | 0.91            | *****             | *****                   | D7582       | 5/19/2020     | MP      |
| Ash               | 4.57            | 4.61              | *****                   | D7582       | 5/19/2020     | MP      |
| Carbon            | 60.30           | 60.85             | 63.80                   | D5373       | 5/19/2020     | MP      |
| Hydrogen          | 8.29            | 8.36              | 8.77                    | D5373       | 5/19/2020     | MP      |
| Nitrogen          | 4.10            | 4.14              | 4.34                    | D5373       | 5/19/2020     | MP      |
| Sulfur            | 0.33            | 0.333             | 0.35                    | D4239       | 5/19/2020     | MP      |
| Oxygen            | 21.50           | 21.70             | 22.75                   | calculated  |               |         |
| Total             | 100.00          | 100.00            | 100.00                  |             |               |         |

|               | As Received Btu/lb | Moisture Free Btu/lb | Moisture & Ash Free Btu/lb | ASTM Method | Date Analyzed | Analyst |
|---------------|--------------------|----------------------|----------------------------|-------------|---------------|---------|
| Heating Value | 12,078             | 12,189               | 12,778                     | D5865       | 5/19/2020     | MP      |

Hydrogen and Oxygen values reported do not include hydrogen and oxygen in the free moisture associated with the sample.

Reported results calculated by ASTM D3180. Results are an average of 2 runs.

|          | Result | Units          | Method | Date Analyzed | Analyst |
|----------|--------|----------------|--------|---------------|---------|
| Chlorine | 0.168  | wt.% dry basis | XRF    | 5/26/2020     | GG      |



Monte L. Ellis  
 Laboratory Manager

End of Report  
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Rob Wallner  
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PO Box 3971  
Seattle, WA 98124

Date: May 27, 2020  
Request Number: 39607  
Date Received: 5/18/20  
Matrix: Mattress Fluff

**QUALITY CONTROL**

| Parameter       | Reference Material | Expected | Result | % Recovery |
|-----------------|--------------------|----------|--------|------------|
| Ash             | AR2775             | 6.80     | 5.60   | 82         |
| Volatile Matter | AR2775             | 42.12    | 38.8   | 92         |
| Sulfur          | AR1704             | 1.06     | 1.03   | 97         |
| Carbon          | hs-10006           | 65.56    | 65.1   | 99         |
| Hydrogen        | hs-10006           | 6.69     | 6.73   | 101        |
| Nitrogen        | hs-10006           | 8.50     | 8.70   | 102        |
| Heating Value   | Benz 1             | 11,373   | 11,334 | 100        |
| Chlorine        | NIST 1632c         | 0.114    | 0.107  | 94         |

End of QC Report  
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