



BESTON GROUP CO., LTD  
9 FLOOR, 6 BUILDING, E-COMMERCIAL PORT OF CENTER,  
ZHENGZHOU CITY, CHINA  
TEL: 0086-371-55181866 WEB: www.bestongroup.com

## Test report of biochar

Date: 2026.04.18

Sender: 靖钊辉

| Sample information                                       |                                                                                                |          |                              |              |       |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------|----------|------------------------------|--------------|-------|
| Sample name                                              | EFB-B炭                                                                                         |          | Sample weight                |              |       |
| Test elements                                            |                                                                                                |          |                              |              |       |
| Test Ash                                                 |                                                                                                |          | Test Moisture                |              |       |
| Test process                                             |                                                                                                |          | Test process                 |              |       |
| Number of test                                           | 1                                                                                              | 2        | Number of test               | 1            | 2     |
| Crucible number                                          | A                                                                                              | B        | Sample mass                  | 3.18g        | 3.38g |
| Crucible mass M <sub>0</sub> (g)                         | 17.7385g                                                                                       | 18.4535g | Moisture(%)                  | 1.88%        | 1.24% |
| Sample and crucible mass M <sub>1</sub> (g)              | 18.7109g                                                                                       | 19.4033g | Average                      | 1.56%        |       |
| Sample mass (g) M <sub>1</sub> -M <sub>0</sub>           | 0.9724g                                                                                        | 0.9498g  |                              |              |       |
| The mass of the crucible and the                         | 17.849g                                                                                        | 18.5739g |                              |              |       |
| Total ash mass N (g) M <sub>2</sub> -M <sub>0</sub>      | 0.1105g                                                                                        | 0.1204g  |                              |              |       |
| Total ash (%)                                            | 11.4%                                                                                          | 12.7%    |                              |              |       |
| Calculation                                              | Total ash (%)=100× (M2-M0) / (M1-M0)                                                           |          |                              |              |       |
| Average                                                  | 12.02%                                                                                         |          |                              |              |       |
| Test volatiles                                           |                                                                                                |          | Test fixed carbon            |              |       |
| Test process                                             |                                                                                                |          | Test summary                 |              |       |
| Number of test                                           | 1                                                                                              | 2        | Moisture Mt%                 | 1.56%        |       |
| Crucible number                                          | A                                                                                              | B        | Analysis moisture Mad%       | 0.16%        |       |
| Crucible mass M <sub>0</sub> (g)                         | 24.5486g                                                                                       | 25.2897g | Ash Aad%                     | 12.02%       |       |
| Sample and crucible mass M <sub>1</sub> (g)              | 25.4998g                                                                                       | 26.2471g | Volatiles Vad%               | 16.79%       |       |
| Sample mass (g) M <sub>1</sub> -M <sub>0</sub>           | 0.9512g                                                                                        | 0.9574g  | SulfurSt.d%                  |              |       |
| The mass of the crucible and the total volatiles M2 (g)  | 25.339g                                                                                        | 26.0875g | Fixed carbon Fcad%           | 71.04%       |       |
| Total volatiles mass N (g)M <sub>1</sub> -M <sub>2</sub> | 0.1608g                                                                                        | 0.1596g  | Coke 1-8 CRC                 | 1            |       |
| Total Volatiles (%)                                      | 16.9%                                                                                          | 16.7%    | High calorific value Kcal/kg | 6611 Kcal/Kg |       |
| Calculation                                              | Total volatiles (%)=100× (M <sub>1</sub> -M <sub>2</sub> ) / (M <sub>1</sub> -M <sub>0</sub> ) |          | Low calorific value Kcal/kg  | 6476 Kcal/Kg |       |
| Average                                                  | 16.79%                                                                                         |          |                              |              |       |
| Noted:The above data is for reference only               |                                                                                                |          | Test person:                 | Check:       |       |