**Tabel 1.** Standart Sni No. 1/6235/2000

|  |  |  |
| --- | --- | --- |
| No. | Parameter | Standart SNI |
| 1.  2.  3.  4.  5. | Kadar Air (%)  Kadar Abu (%)  Kadar Karbon (%)  Nilai Kalor (kal/g)  Kadar Zat Menguap (%) | ≤ 8  ≤ 8  ≥77  ≥ 5000  ≤ 15 |

**Tabel 2.** Standart Kualitas Briket Arang Setiap Negara

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sifat Kualitas Briket Arang | Standar | | | |
| SNI 01-6235-2000 | Jepang | Inggris | Amerika |
| Kerapatan (g/cm3) | - | 1-2 | 0,84 | 1 |
| Kadar Air % | < 8 | 6-8 | 3-4 | 6 |
| Keteguhan Tekan (kg/cm2) | - | 60 | 12,7 | 62 |
| Zat Mudah Menguap (%) | < 15 | 15-30 | 16 | 19 |
| Kadar Abu (%) | < 8 | 3-6 | 8-15 | 18 |
| Karbon Terikat (%) | - | 60-80 | 75 | 58 |
| Nilai Kalor | > 5.000 | 6.000-7.000 | 7.300 | 6.5000 |

**Tabel. 3** Hasil Pengujian Kadar Air Arang Briket

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No. | Kadar Air (%) | Standar SNI | Sampel | Hasil Uji | |
| 1. | 70 : 30  (Molase) | ≤ 8 | 7,63 % | | 7,90 % | |
| 7,92 % | |
| 8,13 % | |
| 2. | 70:30  ( kanji ) | ≤ 8 | 7,63 % | | 7,64 % | |
| 7,01 % | |
| 8,28 % | |
| 3. | 70 : 30  (Molase + Topioka ) | ≤ 8 | 4,13 % | | 4,68 % | |
| 4,15 % | |
| 5,77 % | |
| 4. | 50 : 50  ( Molase ) | ≤ 8 | 7,93 % | | 8,11 % | |
| 8,12 % | |
| 8,29 % | |
| 5. | 50 : 50  (Topioka) | ≤ 8 | 4,00 % | | 4,12 % | |
| 4,15 % | |
| 4,22 % | |
| 6. | 50 : 50  (Molase + Topioka) | ≤ 8 | 4,66 % | | 5,03% | |
| 5,21 % | |
| 5,21 % | |

**Tabel 4.** Hasil Pengujian Nilai Kalor Arang Briket

| No. | Briket  (Sekam dan Jerami) | SNI No.1/6235/2000 | Berat Sampel  (gr) | Temperatur  (0C) | ΔT  (0C) | Nilai kalor  (kkal/g) |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | 70:30  Molase (100) | ≥ 5000 | 1 | 0,540 | 0,611 | 7698,6 |
| 2 | 70:30  Topioka (100) | ≥ 5000 | 1 | 0,450 | 0,522 | 6577,2 |
| 3 | 70:30  Molase + Topioka (50:50) | ≥ 5000 | 1 | 0,643 | 0,725 | 9139,2 |
| 4 | 50:50  Molase (80) | ≥ 5000 | 1 | 0,583 | 0,658 | 8286,6 |
| 5 | 50:50  Topioka (80) | ≥ 5000 | 1 | 0,531 | 0,602 | 7585,2 |
| 6 | 50:50  Molase + Topioka (50:50) | ≥ 5000 | 1 | 0,589 | 0,670 | 8442 |