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# НҮҮРСНИЙ ОВООЛГЫН ҮЗҮҮЛЭЛТ

— Баяжуулсан коксжих чанаргүй нүүрс —



## НҮҮРСНИЙ ОВООЛГЫН ЧАНАРЫН ҮЗҮҮЛЭЛТ

НИЙТ ЧИЙГ (ar)

**$\leq 9.0$**

ҮНСЛЭГ (db)

**30.0%**

(-5.0; +5.0)

ДЭГДЭМХИЙ (daf)

**$< 37.0\%$**

НИЙТ ХҮХЭР (db)

**$< 1.0\%$**

БАРЬЦАЛДАХ  
ЧАНАР

**$\leq 20.0$**

ИЛЧЛЭГ

**$> 5000$**

**ALS GROUP LLC**

Mongol Nekhmel Building, 19nd khoroo  
Chinggis Avenue, Khan-Uul District  
Ulaanbaatar, Mongolia  
Tel +976 70 007667


**CERTIFICATE OF ANALYSIS  
26H46-TT**

**CLIENT:** Tavantolgoi LLC  
**ADDRESS:** Umnugovi, Tsogttsetsii  
Tsagaan ovoo bag  
Tavantolgoi LLC  
**ATTN:** Khatanbaatar.P  
**PROJECT NO.** xxx  
**LAB. JOB NO.** 26H46-TT  
**NO. SAMPLES:** 3  
**Notes/Comments:** xxx

**SAMPLES RECEIVED:** 28/Aug/26  
**INSTRUCTIONS RECEIVED:** 28/Aug/26  
**DATE OF REPORT:** 31/Aug/26  
**STATUS OF REPORT:** FINAL  
**ANALYSIS COMPLETE:** 31/Aug/26  
**PREPARATION CODE:** CRUSH-01, 02; MILL-01  
**ANALYSIS CODE:** TM, MOIS, ASH, VOL, TSUL,  
GCV, CSN, CKIN

**APPROVED BY:** Laboratory Manager



*These test results are representative only of the sample received in the laboratory.*

| STANDARD METHOD |                                            | GB/T 211            | GB/T 212  | GB/T 212              | GB/T 212          | ISO 19579            | GB/T 213                    | GB/T 212        | GB/T 212  | GB/T 212              | GB/T 212          | ISO 19579            | GB/T 213                    |
|-----------------|--------------------------------------------|---------------------|-----------|-----------------------|-------------------|----------------------|-----------------------------|-----------------|-----------|-----------------------|-------------------|----------------------|-----------------------------|
| LAB NO.         | SAMPLE NO.                                 | AS RECEIVED BASIS   |           |                       |                   |                      |                             | AIR DRIED BASIS |           |                       |                   |                      |                             |
|                 |                                            | Total Moisture (TM) | Ash (ASH) | Volatile Matter (VOL) | Fixed Carbon (FC) | Total Sulphur (TSUL) | Gross Calorific Value (GCV) | Moisture (MOIS) | Ash (ASH) | Volatile Matter (VOL) | Fixed Carbon (FC) | Total Sulphur (TSUL) | Gross Calorific Value (GCV) |
|                 |                                            | %                   |           |                       |                   |                      |                             | %               |           |                       |                   |                      |                             |
| 1               | БАЯЖУУЛСАН КОКСЖИХ ЧАНАРГҮЙ ОВООЛГО ДЭЭЖ-5 | 6.20                | 25.86     | 20.90                 | 47.05             | 0.76                 | 5484                        | 2.05            | 27.00     | 21.82                 | 49.12             | 0.79                 | 5726                        |
| 2               | БАЯЖУУЛСАН КОКСЖИХ ЧАНАРГҮЙ ОВООЛГО ДЭЭЖ-6 | 2.67                | 31.34     | 20.52                 | 45.47             | 0.95                 | 5513                        | 0.68            | 31.98     | 20.94                 | 46.40             | 0.97                 | 5625                        |
| 3               | БАЯЖУУЛСАН КОКСЖИХ ЧАНАРГҮЙ ОВООЛГО ДЭЭЖ-7 | 2.11                | 30.98     | 20.28                 | 46.63             | 0.81                 | 5645                        | 0.73            | 31.42     | 20.56                 | 47.29             | 0.83                 | 5724                        |

**QUALITY ASSURANCE/QUALITY CONTROL DATA**

| STDALSW-41/25      | ASH   | VOL   | GCV     | TSUL  |
|--------------------|-------|-------|---------|-------|
| Certified Value    | 10.93 | 20.61 | 7891    | 0.680 |
| Standard Deviation | 0.049 | 0.076 | 12      | 0.007 |
| Unit               | %     | %     | kcal/kg | %     |
| Analyzed value     | 10.92 | 20.60 | 7690    | 0.682 |

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| STANDARD METHOD |                                            | GB/T 212  | GB/T 212              | GB/T 212          | ISO 19579            | GB/T 213                    | GB/T 212              | GB/T 212          | ISO 19579            | GB/T 213                    | GB/T 5448                      | GB/T 5447                |     |
|-----------------|--------------------------------------------|-----------|-----------------------|-------------------|----------------------|-----------------------------|-----------------------|-------------------|----------------------|-----------------------------|--------------------------------|--------------------------|-----|
| LAB NO.         | SAMPLE NO.                                 | DRY BASIS |                       |                   |                      |                             | DRY, ASH-FREE BASIS   |                   |                      |                             | Crucible Swelling Number (CSN) | Coal Caking Index (CKIN) |     |
|                 |                                            | Ash (ASH) | Volatile Matter (VOL) | Fixed Carbon (FC) | Total Sulphur (TSUL) | Gross Calorific Value (GCV) | Volatile Matter (VOL) | Fixed Carbon (FC) | Total Sulphur (TSUL) | Gross Calorific Value (GCV) |                                |                          |     |
|                 |                                            | %         |                       |                   |                      |                             | kcal/kg               | %                 |                      |                             |                                | kcal/kg                  | 5:1 |
| 1               | БАЯЖУУЛСАН КОКСЖИХ ЧАНАРГУЙ ОВООЛГО ДЭЭЖ-5 | 27.56     | 22.28                 | 50.16             | 0.81                 | 5846                        | 30.76                 | 69.24             | 1.11                 | 8071                        | 1.0                            | -                        | 6   |
| 2               | БАЯЖУУЛСАН КОКСЖИХ ЧАНАРГУЙ ОВООЛГО ДЭЭЖ-6 | 32.20     | 21.08                 | 46.72             | 0.98                 | 5664                        | 31.09                 | 68.91             | 1.44                 | 8354                        | 1.5                            | 20                       | -   |
| 3               | БАЯЖУУЛСАН КОКСЖИХ ЧАНАРГУЙ ОВООЛГО ДЭЭЖ-7 | 31.65     | 20.71                 | 47.64             | 0.83                 | 5766                        | 30.31                 | 69.69             | 1.22                 | 8436                        | 1.0                            | -                        | 16  |