

# Shenmu Zhonghao New Energy Technology Co., Ltd

## Company Introduction

Shenmu Zhonghao New Energy Technology Co., Ltd. was established in September 2016. The company relies on the advantage of location in Shenmu Energy Chemical Base and the brand advantage of the "Shenmu Lan Tan" national geographical indication certification trademark, which is focusing on the research and development, production, sales, foreign trade export, and promotion and utilization of Lan Tan new energy and energy chemical accessories as a high-tech company.

At present, more than 90% of the employees in the company have a bachelor's degree or above. The company has established a board of directors, appointed a general manager, and has production and operation department, finance department, administrative department, business department, foreign trade department, and logistics department.

Zhonghao Energy products are mainly sold to Inner Mongolia, Ningxia, Gansu, Sichuan, Yunnan, Guangxi, Zhejiang, Shandong, Qinghai, Liaoning, Jilin, Henan, Beijing Tianjin Hebei and other countries, as well as South Korea, Japan, Malaysia, Indonesia and other countries. Currently, we have established strategic cooperative relationships with multiple domestic and foreign manufacturers. The raw coal used by the company is produced from high-quality gasification coal from Shenmu, ensuring the stability of raw coal supply and product quality. The company has a strong environmental protection circular economy industry chain.

Jack.zhang is in charge of Zhonghao Energy,he legive best regards to the people to the person who support and care about our company togher with his staffs as well as the vast number of users and industry insiders! Welcome domestic and foreign merchants to visit and cooperate with the company. Let's work together to create a better future and contribute to the environmental protection industry.

## Product technical indicators

| project                           | symbol       | unit               | Technical indicators    | test method |
|-----------------------------------|--------------|--------------------|-------------------------|-------------|
| Volatile matter                   | $V_{daf}$    | %                  | 5.00-7.00               | GB/T212     |
| Fixed carbon                      | $F_{cd}$     | %                  | $\geq 84$               | GB/T212     |
| Moisture                          | $M_1$        | %                  | 15.00-18.00             | GB/T211     |
| sulfur                            | $S_{t,d}$    | %                  | $\leq 0.3$              | GB/T214     |
| phosphorus                        | $P_d$        | %                  | $\leq 0.008$            | GB/T216     |
| alumina                           | $W(Al_2O_3)$ | %                  | $\leq 2.00$             | GB/T1574    |
| Total potassium sodium            | $K+Na$       | %                  | $< 0.12$                | GB/T035     |
| resistivity                       | $P$          | $10^{-6} \Omega m$ | $> 10000$               | GB/T035     |
| thermal stability                 | $TS_{+6}$    | %                  | $> 80$                  | GB/T1573    |
| ash                               | $A_d$        | %                  | $\leq 8$                | GB/T212     |
| Ash melting softening temperature | $ST$         | $^{\circ}C$        | $> 1250$                | GB/T219     |
| shatter strength                  | $SS$         | %                  | $> 60$                  | GB/T15459   |
| Hardwood grindability             | $HGL$        |                    | $> 60$                  | GB/T2565    |
| size                              |              | mm                 | 75-35,35-18,18-8, $< 6$ |             |
| Calorific value                   | $Q_{net,ar}$ | MJ/kg              | 22.00-26.00             | GB/T2565    |

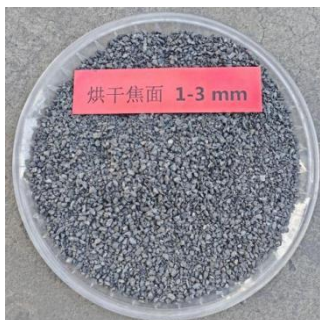
## Semi coke product display



## Anhydrous semi coke index

| project         | symbol       | unit | Technical indicators | test method |
|-----------------|--------------|------|----------------------|-------------|
| Volatile matter | $V_{daf}$    | %    | 6.00-9.00            | GB/T212     |
| Fixed carbon    | $F_{cd}$     | %    | $\geq 81$            | GB/T212     |
| Moisture        | $M_1$        | %    | 0.1-2.00             | GB/T211     |
| sulfur          | $S_{t,d}$    | %    | $\leq 0.3$           | GB/T214     |
| phosphorus      | $P_d$        | %    | $\leq 0.008$         | GB/T216     |
| alumina         | $W(Al_2O_3)$ | %    | $\leq 2.00$          | GB/T1574    |
| ash             | $A_d$        | %    | $\leq 10$            | GB/T212     |
| size            |              | mm   | 1-3、3-5、3-8          |             |

## Anhydrous semi coke(Carburizing agent)



## Technical indicators of shaped coke

| project         | symbol       | unit  | Technical indicators | test method |
|-----------------|--------------|-------|----------------------|-------------|
| Volatile matter | $V_{daf}$    | %     | 5.00-10.00           | GB/T212     |
| Fixed carbon    | $F_{cd}$     | %     | $\geq 79$            | GB/T212     |
| Moisture        | $M_1$        | %     | 3.00-6.00            | GB/T211     |
| sulfur          | $S_{t,d}$    | %     | $\leq 0.3$           | GB/T214     |
| ash             | $A_d$        | %     | $\leq 10$            | GB/T212     |
| size            |              | mm    | 20-70                |             |
| Calorific value | $Q_{net,ar}$ | MJ/kg | 26.00-29.00          | GB/T2565    |

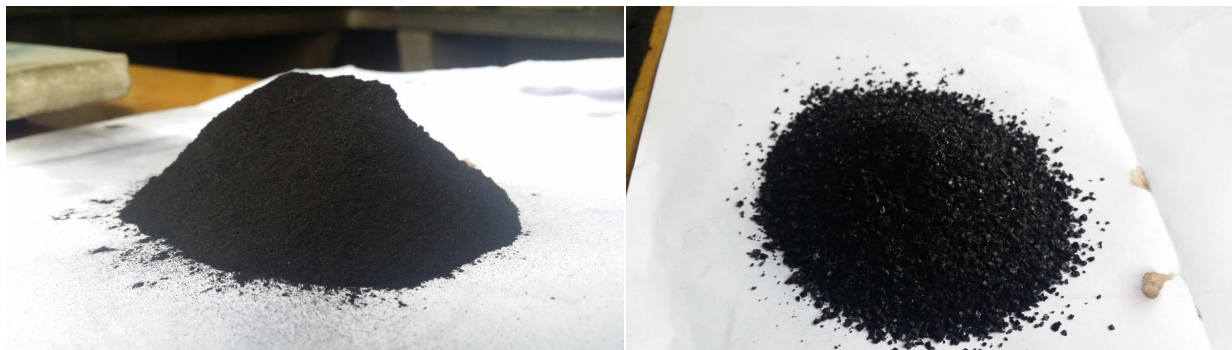
## Display of formed coke products



## Technical indicators of activated carbon products

| project                               | test method      | unit | Technical indicators |
|---------------------------------------|------------------|------|----------------------|
| Moisture content                      | GB/T7702.1-1997  | %    | 0.6                  |
| Apparent Density                      | GB/T30202.1-2013 | gL   | 445                  |
| Water capacity                        | GB/T7702.5-1997  | %    | 70.3                 |
| strength                              | GB/T7702.3-2008  | %    | 90.2                 |
| Ash                                   | GB/T7702.15-2008 | %    | 11.8                 |
| PH value                              | GB/T7702.16-1997 |      | 9.6                  |
| Iodine Number                         | GB/T7702.7-2008  | mg/g | 525                  |
| Methylene blue adsorption value       | GB/T7702.6-2008  |      | 88.3                 |
| BET surface area                      | GB/T7702.20-2008 | M2/g | 597                  |
| Carbon tetrachloride adsorption value | GB/T7702.13-1997 | %    | 21.1                 |
| Desulfurization value                 | GB/T30202.4-2013 | mg/g | 27.1                 |
| Specification size                    |                  | mm   | 0-15mm range         |

## Activated carbon product display



## Product technical indicators(spectral analysis)

| grade   | greater than | Magazine elements are less than |       |       |       |       |       |       |       |        |        |
|---------|--------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
|         |              | Mn                              | AL    | Zn    | Cu    | Ni    | Fe    | Si    | Sn    | Ca     | other  |
| Mg99.95 | 99.95        | 0.003                           | 0.008 | 0.005 | 0.002 | 0.001 | 0.003 | 0.006 | 0.005 | 0.0016 | 0.015  |
| Mg99.90 | 99.90        | 0.04                            | 0.02  | 0.01  | 0.004 | 0.001 | 0.03  | 0.003 | 0.01  | 0.0028 | 0.0025 |

## Magnesium Ingot Product Display



If you have any other questions or need further information, please feel free to contact me at any time.

Wishing you all the best!

Jack Zhang

Business Unit Manager

Number:+86 09128302151

WhatsApp(WeChat):+8618966975066

Email: [jack@smzhenergy.com](mailto:jack@smzhenergy.com)

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