



MODERN PELLETS

MANUFACTURER OF BAMBOO PELLETS

“We switched to bamboo pellets and have noticed a significant decrease in our carbon footprint. Our customers appreciate our environmentally friendly approach.”

About us

We Modern filtertech have rich experiences in bamboo pellets manufacturing. Established In 2022, engaged in manufacturer of biomass complete bamboo pellet mill plant in India. The capacity is 150 to 200 tons per day and it has been running well in these years. And now, the customer is considering to expand us its bamboo pellet plant with extended capacity of 300 tons per day.

Under the guidance of our mentor, “Mr. Senthil Kumar” we have been able to meet the specific needs of clients in the most efficient manner. Our ethical business policies, client-centric approach, transparent dealings and on-time deliver have helped us to achieve the reputed name in the industry.



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PRODUCTS

Biomass MouldingFuel (“BMF” for short) is a new type of clean fuel that can be directly burned by crushing, mixing, extruding, drying and other processes of bamboo as raw materials to produce various shapes (such as blocks, granules, etc.)



At present, the world is facing the double pressure of energy shortage and environmental protection, and vigorously developing biomass energy is the inevitable choice to realize sustainable economic and social development. The advantage of starting bamboo pellet manufacturing business.

- **Bamboo is a high-quality biomass energy raw material.**
- **Bamboo has rich resources and many countries has bamboo plants.**
- **The development of biomass pellets manufacturing in bamboo industry concentration areas has cost and environmental protection advantages.**

Bamboo pellet fuel, as one of the biomass fuels, is a kind of biomass pellet fuel with high cost performance ratio because of its special variety. In addition, its common advantages of biomass pellet fuel make it a popular biomass pellet fuel

Bamboo pellet’s specification is as follows:

- **Density: >1.22kg/m³.**
- **Diameter: 10-12mm.**
- **Length: 25-30mm.**
- **Calorie: 4800-5200KCAL/KG.**
- **Moisture: standard 8.7%-9.6% max.**
- **Ash Content: standard 0.9%-1.1%max.**



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FEATURES

Biomass bamboo fuel generally refers to the particle fuel with bamboo as raw material. It is different from bamboo particle, and it is a biomass particle between the two. The following figure shows pine wood pellet fuel

- 1. The calorific value of bamboo pellet fuel is 4800-5500 kcal/kg, which is a kind of biomass fuel with high calorific value among biomass fuels. Therefore, when calorific value is required, bamboo pellet fuel has obvious advantages in calorific value**
- 2. The ash content of bamboo fuel is small, generally 1-3. Compared with coal combustion, this ash content has little ash and residue after combustion. The low ash content greatly improves the utilization rate of bamboo grain fuel and saves fuel.**
- 3. Bamboo pellet fuel is highly volatile, easy to burn, and can also volatilize into combustible gas for full combustion, which is an advantage that ordinary coal does not have.**
- 4. There is almost no ash residue after the combustion of bamboo particle fuel, which is only 1% - 5% of the total weight. Unlike the large amount of ash residue after the combustion of coal, which accounts for about 30-40% of the total weight, it needs to waste human and material resources to clean up the coal residue, and it is easy to cause secondary pollution to the environment if it is stacked randomly.**
- 5. The main components of combustible gas after pyrolysis during the combustion of bamboo wood particle fuel are H₂, CH₄, C_mH_n, CO, etc. After full combustion, the emission of SO₂, CO, NO, etc. is slight. See the figure below for the specific emission comparison. Therefore, the combustion emissions of bamboo wood particle fuel have a very obvious environmental protection advantage compared with coal.**
- 6. Bamboo wood pellet fuel has high utilization rate and unit price performance price ratio, and is fuel oil. Compared with gas, electricity and other energy sources, bamboo pellet fuel is a relatively cost-effective energy, which can generally save 50% than oil and gas, and 80% than electricity. Compared with anthracite, it is 10% cheaper and 20-30% more expensive than low-quality polluting coal. Note that under the conditions of environmental protection and economy, biomass bamboo pellet fuel is one of the energy sources with high cost performance.**
- 7. Bamboo pellet fuel is burned on professional biomass burners, steam generators and other equipment. Generally, intelligent operation can effectively control fuel consumption, and truly achieve scientific control without wasting energy.**
- 8. Bamboo pellet fuel is an environment-friendly and renewable energy for resource recovery and reuse. bamboo pellet fuel is mainly used as leftover materials from furniture factories and board factories. It is used for environmental energy after processing, so bamboo wood pellet fuel has the property of environmental protection and renewal.**



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