



## Benefits:

### MANY ADVANTAGES OF WOOD PELLETS

Wood pellets are an ecofriendly solid fuel made from compacted sawdust and related industrial wastes from the milling of lumber.

### Renewable

Wood pellets have a decided advantage over fossil fuels:

They are produced from renewable materials such as wood shavings and saw dust. India is among the most richly forested countries in Asia. Over 30 million solid cubic meters of wood grow each year. The timber stock in India forests has been increasing for years despite intensive use for construction timber, paper manufacturing and as an energy source.



### Specification

Parameters	Units	Results	Protocol
Total Moisture	% (m/m)	6.65	IS 17655 (P-2) 2021
Inherent Moisture	% (m/m)	6.38	IS 17655 (P-2) 2021
Ash Content	% (m/m)	12.34	IS 17655 (P-2) 2021
Gross Calorific Value(ADB)	Kcal/Kg	4070	IS 17654 -2021
Gross Calorific Value(ARB)	Kcal/Kg	4058	IS 17654 -2021

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## Sustainable

Investment in a new heating system is expensive and therefore should be profitable in the long run. Severe rise in prices and unpredictable risks characterize the market for fossil fuels. In comparison, the supply of wood from domestic forests is much more secure and less volatile. Austria produces more wood pellets solely as by-products of timber processing than are consumed in the country.

## Cost-effective

The economic advantages of wood pellets are striking: Compared to fossil oil or natural gas, you can save about half of your expenses on fuel. An important factor for the cost effectiveness of wood pellet heating are the highly efficient heating devices that were developed for this solid fuel. Wood pellet central heating boilers, as well as wood pellet stoves, transform more than 90 % of the energy contained in the fuel into usable heat. Essentially, it is this combination of low fuel costs and efficient heating devices that makes the use of wood pellets so cost-effective.

## Eco-friendly

Since wood absorbs the same quantity of CO<sub>2</sub> from the atmosphere whilst growing as is emitted during combustion, wood fuels do not contribute to the concentration of carbon dioxide in the atmosphere. Even if one takes the deployment of fossil fuels for production and transport of wood pellets into account, the result is a CO<sub>2</sub>-reduction of over 95 % compared to the use of heating oil. A crucial advantage of wood pellet heating are the extraordinarily low emissions. Dry fuel, the electronic regulation of combustion air and the hot combustion chamber provide for an optimal and clean burning. A wood pellet central heating boiler for a large single-family house thus emits less than 1 kg of ash per year in the form of fine particulates – an extremely slight amount if one considers that the total amount of fine dust emissions in India is approximately 50,000 tons per year.

## Domestic Economy

The use of wood pellets not only offers significant advantages for the environment and clear economic advantages for the customers, but also provides a secure future market for domestic companies which deliver the fuel, manufacture the heating devices, install and service them. A study of the India Federal Ministry for Transport, Innovation and Technology assumes that in 2011 the use of wood fuels in India amounted to a turnover of over

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