



## Pellets 6mm Commercial product data sheet

### INTENDED USE:

Pellet is a solid wood biofuel intended for combustion in modern boilers, fireplaces, and burners to generate thermal energy for heating purposes (heating of small and large family houses, housing cooperatives, hotel and holiday centers, public utility centers, warehouses, industrial halls, religious buildings, sports halls, and other facilities requiring thermal energy). Pellets can also be burned in oil boilers (replacing the oil burner with a pellet burner).

### COMPOSITION:

High-temperature and pressure-pressed pellets made from dry, ground, and clean wood shavings. The 6 mm-diameter pellet is made from 100% spruce wood chips. The content of the pellet may vary depending on the type of wood, but is always has to comply with ENplus A1 standards.

### PRODUCT CHARACTERISTICS

- High-calorific value – about 5.3 kWh of 1 kilogram of Pellet (1 tonne of Pellets replaces 470 litres heating oil, 572 m<sup>3</sup> of natural gas, 429 L of LPG gas, 0.79 tonne of coal).
- Small amount of ash remaining after pellet combustion (0.3 - 0.5%).
- Easy to store (1 tonne of Pellet packed 15 kg bags takes up about 2 m<sup>3</sup>).
- Eco-friendly (The ash from burning the pellets can be used as fertilizer for your lawn or garden).
- Clean in use - it does not leave dirt in rooms as other solid fuels do, such as coal (e.g. eco-pea coal), wood, coke, fine coal.
- It does not contain harmful substances;
- It does not emit burdensome and unpleasant odours.
- It does not cause allergies.



## CERTIFICATION:

ENplus A1 No. CZ 027 (Ignis Futuri s.r.o) compliant with the International Standard ISO 17225-2:2013



/	TESTING METHOD	ENplus A1 requirement	IF Premium Pellets RESULTS
Diameter	Vernier calliper	6.0 mm	6.0 mm
Length	Vernier calliper	≤ 40 mm	14,2 mm
Amount of total humidity	EN ISO 18134	≤ 10 %	6,5 %
Ash content (550°C)	EN ISO 18122	≤ 0.7 %	0.33 %
Ash melting point	CEN/TS 15370	≥ 1200 °C	1490 °C
Calorific value	EN ISO 18125	≥ 16.5 MJ/kg	17,58 MJ/kg
Volume density	EN ISO 17828	600–750 kg/m <sup>3</sup>	665 kg/m <sup>3</sup>
Fine particle content (dust in a bag)	CEN/TS 15149-2	≤ 0.5 %	0.19 %
Abrasion	EN ISO 17831	≥ 98 %	99,2 %

Results are valid at the time of departure from the production plant

## PACKAGING:

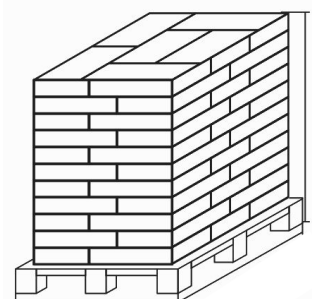
Ignis Futuri premium pellets are offered in standardised 15kg bags and in 1 ton big bags. In the case of 15kg bags, the product is placed on 1.2m x 1.0m pallets and is protected on the outside by a stretch cover.

In the case of big bag filling, the pellets are loaded into 1021 kg big bags.

Pellet 6 mm in big bag can be packed on a (1,2 m x 1 m) pallet at the customer's request.

See the sheet below for more details:

Bag weight [kg]	Pallet type	Bags on layer (pcs)	Number of layers (pcs)	Number of bags on a pallet [pcs]	Pallet total weight[kg]
15	1.2 x 1.0 m	7	10	70	1050



## TRANSPORT:

- Pellets may be transported by covered means of road transport.
- The load should be placed and secured in accordance with road transport regulations.
- Less than truck load transport possible from 1 pallet. Full truck load transport with curtain trailer, U-shaped trailer

## STORAGE:

Ignis Futuri recommends storing Pellets 6mm in rooms that meet the following conditions:

- A building with a roof that prevents vapour condensation on the inside;
- Equipped with gravitational or mechanical inlet/outlet ventilation;
- Floor with a dense moisture barrier;
- Pellets should be stored in a dry place, away from direct exposure to weather conditions.
- Pellet bags should be isolated from the ground by placing them on pallets.
- Permissible conditions for storage in warehouses ( Relative humidity up to 65%. Air temperature from +1°C to +28°C (from +34°F to +82°F).
- Formed pallets with 15 kg bags can be stored in stacks (one pallet on top of the other - maximum 2 layers). In this case it is recommended to use spacers (wood-based panels). The best solution is to store pellets in layers in special storage racks.
- Pellets delivered in big bags must be stored in a warehouse under the conditions described above.
- Ignis Futuri authorises the periodic storage of Pellet 6 mm in 15 kg bags outside (outside the warehouse) provided that the following conditions are met
- Pallets of pellets are protected. No tampering with the factory packaging system is allowed.
- Pellet bags are isolated from the floor with pallets.
- Pallets with 15 kg bags may only be stored in one layer due to the possibility of mechanical damage to the packaging.
- Factory packaging (bag, protective cover, pallet) must be inspected before storing outside. If any mechanical damage is present, Pallets must not be placed outside.
- The maximum period of pellet storage outside the warehouse is six months from the date of production.

Storage of Pellet 6 mm in 15kg bags and in big bags in conditions other than those described may cause damage to the Pellet, for which Ignis Futuri shall not be liable.

## MANUFACTURER:

The Czech company IGNIS FUTURI s.r.o. started producing pellets in a newly built modern plant located in Central Bohemia at the end of year 2024. The annual production capacity is set to be 24,000 tonnes. The production line is fully automated and uses the latest technology such as the Salmantec press and Amandus Khal mill for the best possible wood fraction. The raw material is sourced only from certified suppliers who are able to supply pure sawdust, perfectly stripped of bark. They guarantee immediate delivery directly from the sawmill. The pellets are packaged in 15 kg bags using a modern VAI V5/10 SPECIAL machine. This ensures the quality of each package that leaves our premises.

Establishing mutually beneficial, reliable and long-term cooperation with a stable business partner is our main interest. We offer guaranteed deliveries of pellets in agreed quantities and terms, in quality according to ENplus certification.



## CONTACT:

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