

For the production of
wood pellets produced by

Profiles d.o.o., plant in Hruševje, Slovenia

certified according to **ENplus® A1** with the ID number: **SI002**

we confirm the following test results analysed within the inspection 2022 valid until
the inspection in 2023.

| BEA2022096 | Standard | unit | Pellets | Limit values according ENplus® | |
|--|---------------------|----------|---------|-----------------------------------|---------------------------|
| | | | | Class A1 | Class A2 |
| mechanical durability | ISO 17831-1:2015 | [%] | 98,5 | ≥ 98,0 | ≥ 97,5 |
| bulk density (ar) | ISO 17828:2015 | [kg/m³] | 670 | 750>BD≥600 | 750>BD≥600 |
| moisture content | ISO 18134-2:2017 | [%] | 6,9 | ≤ 10 | ≤ 10 |
| ash content 550°C (db) | ISO 18122:2015 | [%] | 0,60 | ≤ 0,7 | ≤ 1,2 |
| net calorific value (ar) | ISO 18125:2017 | [MJ/kg] | 16,8 | ≥ 16,5 | ≥ 16,5 |
| net calorific value (ar) | ISO 18125:2017 | [kWh/kg] | 4,7 | ≥ 4,6 | ≥ 4,6 |
| net calorific value (db) | ISO 18125:2017 | [MJ/kg] | 18,3 | - | - |
| net calorific value (db) | ISO 18125:2017 | [kWh/kg] | 5,1 | - | - |
| gross calorific value (ar) | ISO 18125:2017 | [MJ/kg] | 18,3 | - | - |
| gross calorific value (ar) | ISO 18125:2017 | [kWh/kg] | 5,1 | - | - |
| Sulphur content (db) | ISO 16994:2016 | [%] | 0,017 | ≤ 0,04 | ≤ 0,05 |
| Chlorine content (db) | ISO 16994:2016 | [%] | <0,005 | ≤ 0,02 | ≤ 0,02 |
| Nitrogen content (db) | ISO 16948:2015 | [%] | 0,09 | ≤ 0,30 | ≤ 0,50 |
| dimensions | | | | | |
| fines (< 3,15 mm) | ISO 18846:2016 | [%] | 0,18 | ≤ 0,5 ¹⁾ / ≤ 1 | ≤ 0,5 ¹⁾ / ≤ 1 |
| length (40 ≤ L ≤ 45 mm) | ISO 17829:2015 | [%] | 0,0 | ≤ 1 | ≤ 1 |
| length (> 45 mm) | ISO 17829:2015 | [Amount] | 0 | 0 | 0 |
| diameter | ISO 17829:2015 | [mm] | 6 | 6 or 8 ± 1 | 6 or 8 ± 1 |
| heavy metals (quantification according ISO 17294-2: 2016) | | | | | |
| Chromium (db) | ISO 16968:2015 | [mg/kg] | <1,0 | ≤ 10 | ≤ 10 |
| Copper (db) | ISO 16968:2015 | [mg/kg] | 1,0 | ≤ 10 | ≤ 10 |
| Zinc (db) | ISO 16968:2015 | [mg/kg] | 5,5 | ≤ 100 | ≤ 100 |
| Lead (db) | ISO 16968:2015 | [mg/kg] | <0,50 | ≤ 10 | ≤ 10 |
| Mercury (db) | ISO 16968:2015 | [mg/kg] | <0,075 | ≤ 0,1 | ≤ 0,1 |
| Cadmium (db) | ISO 16968:2015 | [mg/kg] | 0,10 | ≤ 0,5 | ≤ 0,5 |
| Arsenic (db) | ISO 16968:2015 | [mg/kg] | <0,50 | ≤ 1 | ≤ 1 |
| Nickel (db) | ISO 16968:2015 | [mg/kg] | <1,0 | ≤ 10 | ≤ 10 |
| ash melting behaviour (ash preparation at 815°C, measurement at oxidizing atmosphere) | | | | | |
| shrinking temperature SST | CEN/TS 15370-1:2006 | [°C] | 1130 | - | - |
| deformation temperature DT | CEN/TS 15370-1:2006 | [°C] | 1480 | ≥ 1200 | ≥ 1100 |
| hemisphere temperature HT | CEN/TS 15370-1:2006 | [°C] | >1550 | - | - |
| flow temperature FT | CEN/TS 15370-1:2006 | [°C] | >1550 | - | - |

db... dry basis; ar... as received

¹⁾ 1% at factory gate or when loading truck for delivery to end-users, 0,5% when filling pellets bags/sealed big bags

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