

Impact of torrefaction processes on Brazilian biomasses storage

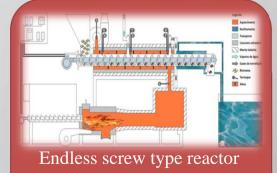


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Biomasses



Torrefactions



Semi-continuous flow. T°C = 290 °C

Durations = 10 to 20 min

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Leachings



Adapted from the directives of the NFX 41-569 (2014)

Thanks to the CNPQ-Brazil for the financial support

Fungal degradations

Adapted from XP CEN/TS 15083-1 (2006)

Trametes versicolor

Coniophora puteana



Durations: 2, 4, 8, 12 and 16 weeks

Characterizations

- ML % du to thermal degradation
- ML % due to leaching process
- WL % due to fungal degradation
- Calorific power (HHV)
- Elementary composition (C; H; N)
- NIRS Chemical composition
- Mechanical properties