

PRESSED C4 GRASS

DATA SHEET

Description

Our pressed C4-grass is cultivated on dedicated land plots in marginal or degraded soils, making it an ideal source of sustainable biomass for industrial power and heat processes. With high nutrient and water efficiency, along with a high biomass yield, C4-grasses provide a renewable feedstock that doesn't encroach on farmland needed for food or contribute to deforestation. Additionally, these resilient grasses have deep root systems that stabilize soil, support carbon sequestration, and restore organic matter in degraded areas.

Pressing the grass reduces moisture, boosting its calorific value and combustion efficiency. Jord's pressed C4-grass offers a sustainable biomass solution that supports environmental resilience and energy efficiency.

Feedstock: C4-grass **Origin:** Dominican Republic



Data table

Parameter	Unit	Grass	Method
Moisture content	%	48	SFS-EN ISO 18134-2:2017
Bulk density	kg/m ³	128	SFS-EN ISO 17828:2015
Ash content (550°C) as dry basis	%	4.6	SFS-EN ISO 18122:2022
Net calorific value (qp.net), dry basis	MJ/kg	17.52	SFS-EN ISO 18125:2017
Sulphur, S as dry basis	%	0.08	SFS-EN ISO 16994:2016
Chlorine, Cl as dry basis	%	0.14	SFS-EN ISO 16994:2016 mod.
Carbon, C total as dry basis	%	47.6	SFS-EN ISO 16948:2015
Hydrogen, H total as dry basis	%	5.8	SFS-EN ISO 16948:2015
Nitrogen, N total as dry basis	%	0.37	SFS-EN ISO 16948:2015
Oxygen, O content (calculated)	%	41.6	SFS-EN ISO 16993:2016
Combustion in an oxygen bomb		Completed	SFS-EN ISO 16994:2016 mod.
Ashing done	°C	550	SFS-EN ISO 21404:2020
Shrinkage start temp, SST	°C	770	SFS-EN ISO 21404:2020
Deformation temp, DT	°C	1150	SFS-EN ISO 21404:2020
Hemisphere temp, HT	°C	1320	SFS-EN ISO 21404:2020
Flow temp, FT	°C	1340	SFS-EN ISO 21404:2020

Benefits

- ✓ High calorific value **17.52 MJ/kg**.
- ✓ Low ash content **<5%**.
- ✓ Low sulfur content **<0.1** that prevents boiler corrosion.
- ✓ **100%** C4 grass cultivated in plots located in Dominican Republic.
- ✓ Sustainable biomass source.
- ✓ As a perennial crop, our C4 grass offers multiple harvests per year, supporting **continuous biomass supply**.

Best use

- **Heating fuel:** as a source of heating to be used in stoves or boilers.
- **Power generation:** On a larger scale, C4-grass can be used for power generation in biomass powered plants.

Availability

Available in bulk and large sack. Contact sales for orders and inquiries.

