

PellTech[®]

More Pellets-More Quality

Trial Report with Pelltech – Segovia

Report No.: 15

Location: Segovia, Spain

Date: June 2016

OBJECTIVE OF THE TRIAL

- Pelltech is a product used mainly for its binding and lubricating properties, improving pellet quality and production rate at the same time.
- It has excellent lubricating properties, facilitating pelleting in difficult formulas, thus reducing energy consumption.
- **Main objective:** Achieve a pellet of better quality.
- **Secondary objective:** Increase production rate.

FEED FORMULA (Rabbit pellets)

- Alfalfa: 28%
- Palm kernel: 10%
- Sunflower: 15%
- Casava: 10%
- Wheat bran: 10%
- Apple pomace: 10%
- Beet: 10%



Call Us
+30 210 576 6048

Visit Our Website
www.zootexnia.com





PellTech[®]

More Pellets-More Quality

TRIAL CONDITIONS

- Pellet size: 3.5 mm
- Steam pressure: 1 bar (constant)
- Conditioner temperature: 67°C
- Pellet press outlet temperature: 95°C
- Production: 6 t/h
- Quality measure: Durability by Holmen NHP, 60 seconds, pellets checked at cooler outlet.

Note: The starting pellet already had very good quality, so the margin for durability improvement was narrow.

PROCEDURE

- Total production: 18 tonnes.
- 6 t Control (without Pelltech).
- 6 t with 1% Pelltech.
- 6 t with 0.5% Pelltech, using increased steam pressure (2 bar).

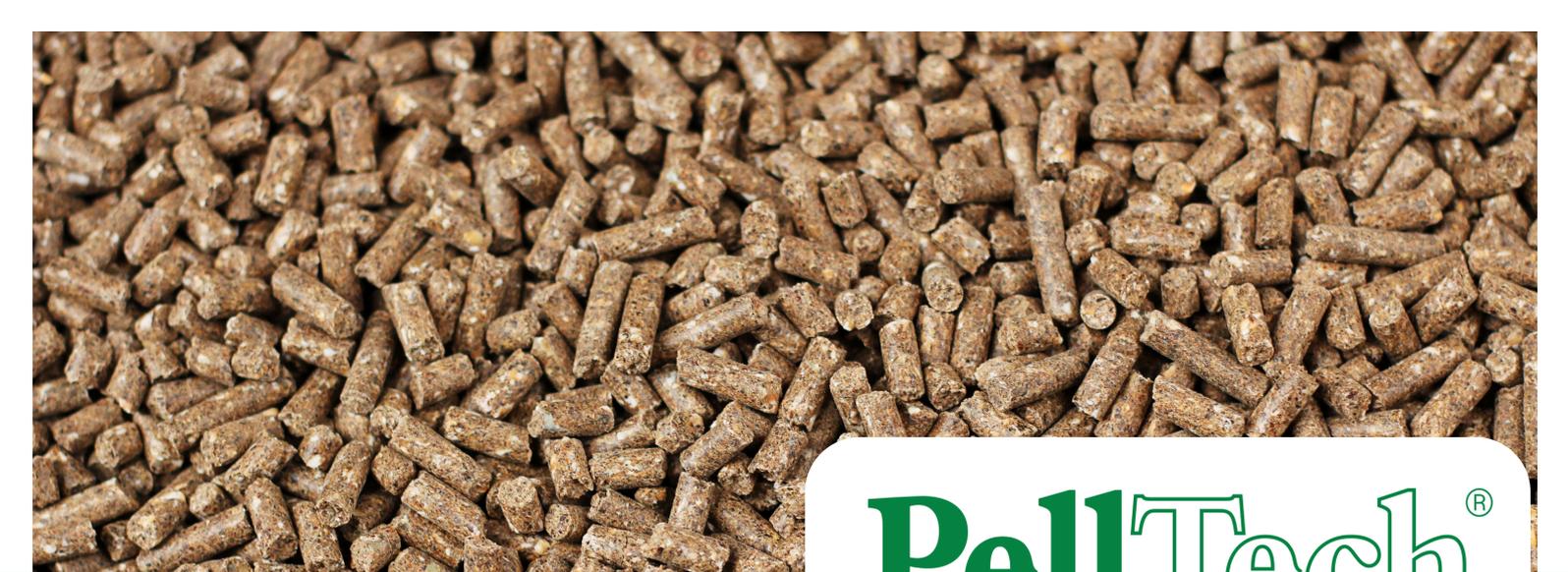
Measurements included amperage, production rate, meal temperature, etc., recorded every 5–10 minutes. Durability tested at Tecnivet laboratory.



Call Us
+30 210 576 6048

Visit Our Website
www.zootexnia.com





PellTech[®]

More Pellets-More Quality

RESULTS

- **+16% production rate** with 1% Pelltech, while maintaining pellet quality (durability).
- Durability improved slightly (+0.2 points, from 97.1 to 97.3). Same effect achieved with 0.5% Pelltech if steam pressure and conditioner temperature increased.
- **Reduced amperage**, lowering energy use per tonne of feed.
- **Less friction** in the press, extending die and roller life.

ECONOMIC STUDY

- With 1% Pelltech:
 - **+16% production** at same quality.
 - Small increase in steam cost.
 - **Energy savings:**
 - Pellet press: ~0.38 €/t saved.
 - Other equipment: ~0.42 €/t saved.
 - Lower wear in die/rollers: ~0.002 €/t saved.
 - **Total savings:** ~0.79 €/t.



Call Us
+30 210 576 6048

Visit Our Website
www.zootexnia.com





PellTech®

More Pellets-More Quality

CONCLUSIONS

- With this rabbit feed formula, Pelltech allowed:
 - +16% production while maintaining quality.
 - Improved pellet durability at optimal production rates.
 - Reduced friction and wear of dies/rollers.
 - Reduced energy costs per tonne produced.

Recommendation: Pelltech should be considered a tool to achieve different benefits depending on the feed formula and challenges.



Call Us
+30 210 576 6048

Visit Our Website
www.zootexnia.com

