

**E R G O F I T O   I N   A C T I O N**

Give Nature What Nature Wants

## Chicken Litter Pellets



ERGOFITO

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## Chicken Litter:

The main problem with chicken litter is the ratio between Carbon and Ammonia. As chicken litter is generally low in carbon, it will form and dissipate Ammonia, which will raise the pH. to such a level that it will reduce the fungi microbiological activity.

The presence of  $\text{NH}^4$  will also cause disequilibrium in the development of bacterial ecosystem and favoring the presence of ammonia producing bacteria. This unwanted situation is present due to the Carbon to Nitrogen ratio, that needs to be calculated with the immediately available carbon to the bacteria while the proteinic Nitrogen is immediately available to the proteinic bacteria.

Often the problem is that a laboratory analysis may show that the Carbon to Nitrogen ratio is above 10, it does not mean that this type of carbon (wood, straw, cellulose etc.) is available as Carbon for sugars.

To obtain good composting from the chicken litter into a high quality fertilizer, the following steps should be followed:

- Prior accumulation of chicken litter for composting, enrich the litter with molasses, glycerin or any other matter containing rapidly available Carbon. (To quantify the carbon amount, it is important to know the % of Nitrogen and rapidly absorbable Carbon present in the chicken litter).
- Acidify the biomass by adding Sulphur in powdered form (acidification is slow with Sulphur) or Phosphoric acid or Citric acid or any other acidic substance. (Deteriorated fruit is very good as it also adds organic acids and rapidly assimilated Carbon)
- Maintain the pH. between 6.5 and 7.5.
- Inoculate the biomass with 1Kg of **Ergofito Compost** per ton of compost

After 30 to 40 days of composting the compost can be pelletized. When the pellets are expelled from the extruder, wait until the temperature falls below 50°C, spray 500 grams **Ergofito Pellets** per 100 Kg of pellets.

In order to make the **Ergofito** bacteria dormant, ensure that the bagged chicken litter pellets have a humidity level below 18%.



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