

# **Agritel**

**Industrial and Agricultural Packaging**

## **Baling of Waste Plastic Trial**

**Centre of Dairy Research (CEDAR)  
Arborfield Hall Farm  
University of Reading**

### **Agritel Limited**

Bryn Y Plentyn, Middleton  
Oswestry, Shropshire SY11 4LP

**Tel 01691 671496 • Fax 01691 658388**

**Email [sales@agritel.co.uk](mailto:sales@agritel.co.uk)**

**[www.agritel.co.uk](http://www.agritel.co.uk)**



## Baler Trial

### Skip 1



6 cu yd skip containing 400-450kg waste plastic ...



... reduced to a single bale.

### Skip 2



600kg polypropylene IBC fertilizer bags: 220 inner and outer bags filled a 6 cu yd skip.



220 outer bags reduced to a single bale weighing 236kg.

## Comparative Disposal Costs

### By skip

- Hire of 2 skips for 2 weeks = £240 (normally nearer £500)

### By baling plastic

- Baler hire 1 day at £100 = £100
- Removal 1 bale polypropylene = £0
- Removal 1.2 bales agri plastic at £45 per bale = £54
- **Total = £154**

**Cost benefit of recycling in bale format  
= 50% cost saving (approx)**

## What the Recycler Wants

- **Clean as possible:** no stones, no metal
- **Chemical containers guaranteed clean** (possibly with written guarantee)
- **Plastic sorted by type**
- **Minimum 5 tonnes at yard gate** (mixed loads OK)
- **Minimum bale size 250kg**
- **Identification and traceability** (Agritel ISO 9001:2000 accredited)

## Types of Agri-Plastic Waste

Material	Type of Plastic	Comments
<b>Silage Film</b>	Polyethylene	Reduce contamination; store in containment area
<b>Plastic Feed Bags</b>	Polyethylene	Bale with silage film
<b>Crop Cover</b>	Polyethylene	Roll into manageable sized balls; bale separately
<b>Netwrap</b>	Polyethylene	Not sure of outlet
<b>Baler Twine</b>	<b>Polypropylene</b>	Place in IBC woven bag
<b>IBC Woven Fertilizer Bags (Outer)</b>	<b>Polypropylene</b>	Remove inner liners and bale with silage film
<b>Rigid Plastic Chemical Containers</b>	Polyethylene	Must be guaranteed free of residue; an assured source

## Agritel AWB250 Waste Baler



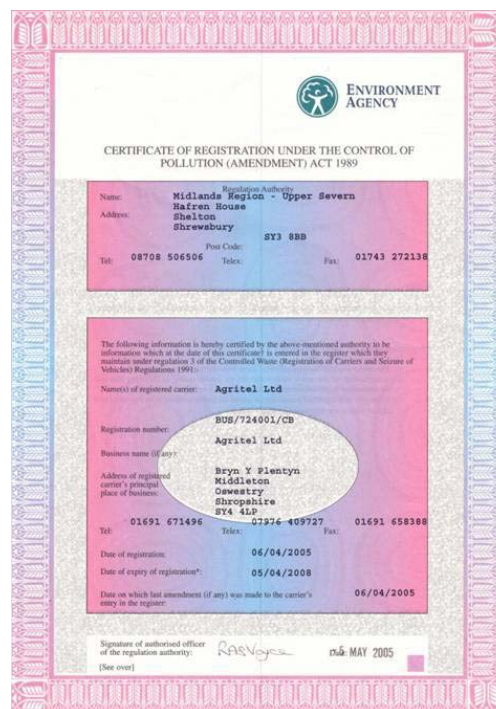
- Feed aperture: 1100mm x 660mm
- Weight: 950kg
- Single phase

### Advantages of Agritel balers

- Robust build
- Simple to operate
- All electro/hydraulic parts standard off-the-shelf
- Offer exceptional value for money
- Transportable
- Can be sited outside

## Agritel is a certified broker and carrier of waste

- Can provide registration for exemption certificates for baling activity (Paragraph 7 Schedule 3)
- Will provide waste transfer notes
- Ensures that your farm fully satisfies its environmental compliance



## Summary and Recommendations

### Manage plastic

- Place in containment area; no stones; no metal; no fertilizer residues
- Separate plastic grades

### Bale

- Minimum 250kg per bale

### Co-operate

- Maximise payloads (5 tonnes minimum)
- Minimise the number of collection points
- Minimise costs

### Recycle wherever possible for a sustainable future

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