

# pressed pulp

## forage and concentrate

Trident Pressed Pulp is a co-product of the manufacture of sugar beet.

On arrival at a sugar factory, beet is sampled then bulked before entering the factory. Prior to processing, it is cleaned and sliced into smaller pieces after which the sugar is washed out using water at 70C. After sugar extraction, the sliced pieces of sugar beet are mechanically pressed to remove excess liquid. This co-product is known as Trident Pressed Pulp.

### product detail

- Natural and traceable product
- UK produced and feed assured
- Economical source of energy
- Succulent and palatable
- Stimulates and increases feed intake
- Improves animal performance
- Good source of digestible fibre
- Provides an excellent rumen buffer

### typical analysis (dry matter basis except dry matter)

Dry matter	28%
ME (MJ/kg DM)	13%
Protein	9.2%
Fibre	18.0%
Neutral Detergent Fibre	40%
Oil	0.5%
Sugar	6%
Total Ash	8%

### suitable for

- Dairy
- Beef
- Sheep – ewes and lambs
- Sows

### flexibility

- Improves the energy density of rations
- Supplement to forage when quality and quality are low

## feed facts

- Suitable as a buffer feed
- Enhances physical nature and 'opens up' total mixed rations
- Can be clamped with dried distillers dark grains to produce a complete feed for ruminants (excluding vitamins and minerals)

### storage

- The product should always be tipped in a clean, dry area
- If fed fresh, Pressed Pulp should be used within 5–7 days of leaving the factory
- If kept for more than 5 days, Pressed Pulp should be ensiled and fully sealed
- Place sheeting down the sides of the clamp.
- Fill the clamp quickly
- Compact the Pressed Pulp as much as possible e.g. compression with loader bucket
- Pull sheet over the top of the completed silo and fold in side sheets
- Weigh down the top sheet (straw bales, tyres, etc)
- Bulk density approximately 800–1000kg/m<sup>3</sup> when clamped
- Pressed Pulp can be pitched up to a height of approximately 2m



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## feed facts

### feeding guide

Recommended daily feeding levels:

- **Dairy cows** – up 20 kg/head
- **Beef** – up to 30–35kg/head
- **Ewes and finishing lambs** – 2–3kg/head
- **Sows** – 2–3kg/head

In all cases when feeding to ruminants, it is advisable to ensure that there is adequate long fibre in the ration and the use of a high phosphorus mineral supplement is also recommended.

### suggested rations

#### Beef cattle – steers gaining 1.4 kg/day

	kg/day freshweight	
	300kg liveweight	400kg liveweight
Pressed Pulp	12	15
Processed Barley	–	1
Trident Distillers Maize	3	6
Minerals and Vitamins	40g	50g

Allow *ad lib* access to long fibre

#### Finishing lambs – gaining 280g/day

Ad lib ration	% inclusion
Pressed Pulp	80
Trident Distillers Barley	20
ME (MJ/kg DM)	13
Protein (% DM)	16

Allow *ad lib* access to long fibre

Requires appropriate vitamins and minerals

#### Dairy – producing 35 litres (3.7% butterfat, 3.1% protein)

	forage extender diets (kg/d)	concentrate extender diet (kg/d)
Grass Silage	12.5	26
Maize Silage	12.5	–
Pressed Pulp	12.5	12
Trident Distillers Barley	–	–
Trident Distillers Wheat	3	–
Maize Gluten 20	3	–
Soyabean Meal	1.5	–
Wheat	4	–
Compound (25% protein)	–	12
Minerals and Vitamins	250g	–
		250g

### trial results

#### Dairy

In a trial at CEDAR, where Pressed Pulp replaced part of the grass silage portion of the ration of dairy cows, results showed:

- significantly increased intakes
- improvements in milk yield and quality
- increased rumen activity
- reduced density of material within the rumen, offering greater rumen degradability potential

#### Beef

When Pressed Pulp was ensiled with Trident Distillers Maize and fed *ad lib* as a beef finishing ration in a trial at Harper Adams University College, it was found to be more economical than a silage-based ration:

- liveweight gains of 1.4 kg/day
- feed conversion ratios of 5.4 kg DM/kg gain

#### Ewes

In a recent trial at ADAS Rosemaund, Pressed Pulp, Pressed Pulp plus rape seed meal successfully replaced compound feed as a supplement to straw based rations for pregnant ewes.

Further work with pregnant ewes demonstrated that Praize (5:1 mix of Pressed Pulp and Trident Distillers Maize) could be successfully offered as an economic concentrate throughout pregnancy.

#### Lambs

For finishing lambs, ensiled mixes of Pressed Pulp and Trident Distillers Feeds fed *ad lib* resulted in excellent feed conversion ratios of 3.8–4 kg feed DM/kg gain and growth rates exceeding 280g/day in a trial at Harper Adams University College.

#### Please Note

Suggested rations are produced as a guide only and many other factors may have an overriding effect on overall performance. All trial rations featured were fully supplemented with vitamins and minerals.

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