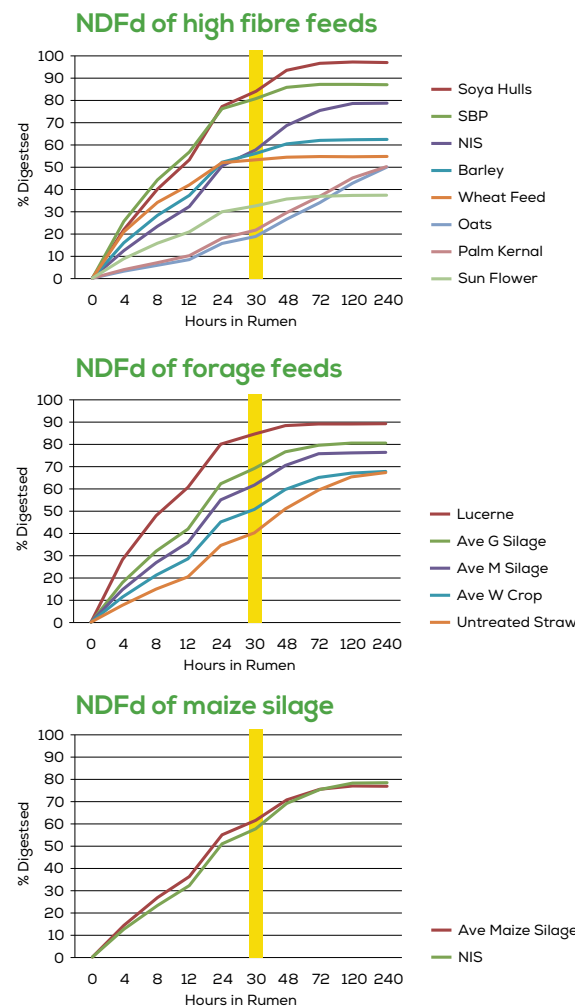


Slow pool digestible fibre

Comparison of the NDFd of various fibre sources and NIS



Using NIS in dairy diets

NIS can be fed in a variety of ways to suit the farm and herd system.

- ✓ As part of a Total Mixed Ration.
- ✓ On top of silage/zero grazed grass.
- ✓ As a part of a blend with other pellets.
- ✓ Free access to a self-feed hopper (low cost systems).
- ✓ In a compound feed.

Animals will not over-eat NIS, and with free access they will limit their intake to the amount they need to maintain the correct fibre balance.

Guideline rates for NIS inclusion

As part of daily ration	Kg/hd	% of DM
Cows in early/mid lactation	2-4 kg	15-25 %
Dairy followers	2-3 kg	20-45 %
Calves	0.25 kg	10-20 %
Beef cattle 0.8-1kg DLWG	1-3 kg	10-20 %
Store cattle	2-3 kg	20-45 %

NIS Analysis

DM (Expressed as a % of DM)	89%
Crude Protein	4.0%
ME Ruminants	9MJ/kg DM
Starch	1.0%
Sugar	1.5%
Oil	1.5%
Crude Fibre	33%
Forage NDF	70%
ADF	50%
NDFd 30	58%
Ash	10%



Produced in the UK



Sundown NIS

High quality digestible fibre to optimise rumen function

To order

Call: 01480 860745

Email: sales@sundownproducts.co.uk

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NIS

Digestible fibre for dairy cattle

Sundownproducts.co.uk
01480 860 745

Sundown NIS

Nutritionally Improved Straw (NIS) is a cost-effective and efficient fibre supplement made from high-quality British cereal straw

- ✓ Improves feed conversion efficiency.
- ✓ Helps to maintain healthy rumen function.
- ✓ Balances rations requiring supplementary fibre.
- ✓ Proven to boost butterfat content.
- ✓ Ideal for both grass-based and high starch diets.
- ✓ Mix within a TMR or blend into a compound feed.

NIS is a cost effective digestible fibre that's ideal for high performance dairy production

NIS supports good rumen health

- 1 Forage fibre is twice as effective as non-forage fibre. Including NIS in the diet increases the quantity of effective digestible fibre in the diet without reducing DMI.
- 2 The NDF in NIS is 50% more digestible than untreated straw and the alkaline buffer effect from the treatment is equivalent to 1.5% sodium bicarbonate.
- 3 The lignified cell walls in straw are softened during the manufacture of NIS, and the pelleting process further breaks these cells, making the digestible energy inside them available to the rumen.
- 4 The pelleting process increases potential dry matter intake.
- 5 NIS pellets are palatable, which reduces sorting. Adding NIS reduces the inconsistency of long forages.
- 6 NIS helps to slow fermentation, reducing acid peaks in the rumen and reducing the risk of acidosis.



In grass-based diets, NIS can improve margins through increased butterfat content and improved rates of growth in youngstock.

Why use NIS in dairy diets?

- ✓ Increases potential DMI of total ration.
- ✓ Palatable pellets reduce sorting.
- ✓ Reduces the inconsistency of long forages.
- ✓ Increases digestibility of cereal straw by 50%.
- ✓ Adds an alkaline buffer, reducing the risk of acidosis*.
- ✓ Slows fermentation, preventing acid peaks in the rumen.

*1.5% sodium bicarbonate equivalent

Using NIS in grass-based diets

- ✓ Improves the utilisation of protein.
- ✓ Allows increased levels of starch.
- ✓ Improves growth rates of youngstock.
- ✓ Improves margins.

