



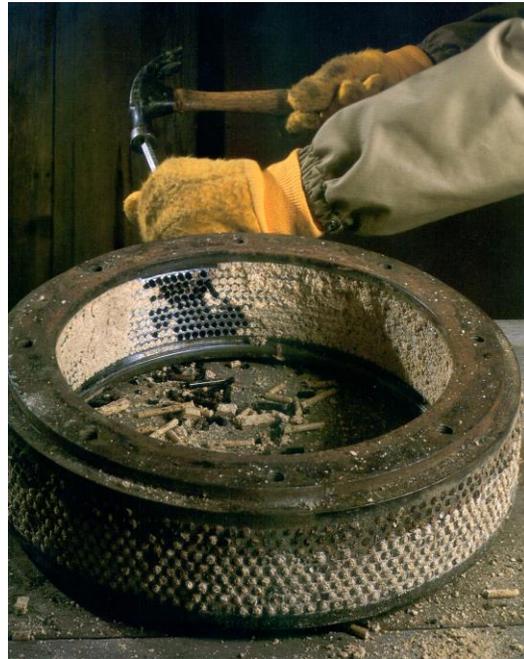
Uniscope, Inc.

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Feed Mill Processing • Nutrition

Do you make hard to pellet feeds?

- **Swine Pre-Starter**
- **High Mineral**
- **High Urea**
- **Heat Sensitive**
- **Rabbit**



If so, call Uniscope for help!

Lubrication • Moisture Repellency • Binding • Anti-Bridging

Super-Lube®...

your solution to hard to pellet feeds!

There are certain feed types that cause production nightmares in pelleted animal feeds. High mill amperage, low production rates, broken dies, plugged dies, and burning pellets can make a mill manager wake up in a sweat with tough to pellet feeds.

Now, there is a unique, low inclusion pellet lubricant that can help you manage difficult production problems and increase efficiency.

Super-Lube® is a dry powder that is added at the mixing stage prior to pelleting. It can be used to increase production rates,

SWINE PRE-STARTER FEEDS – HIGH WHEY, HIGH SUGAR

Super-Lube® is a special lubricant used during the production of swine pre-starter feeds to increase production rates from 10 to 20%.

These feeds typically contain high levels of corn gluten, whey, sugar, and hydrolyzed fish meal. The heat sensitive ingredients and small diameter pellet dramatically reduce throughput driving up the cost of production and reducing profits.

Sugar and whey begin to caramelize at 140°F and die friction heat can cause hard, burnt pellets with low production rates that can plug the die.

HIGH “ROCK” OR MINERAL FEEDS

Concentrate pellets for livestock include high levels of minerals commonly referred to as “Rock”. For example, some feedlot rations include calcium carbonate at levels

HIGH UREA AND POTASSIUM CHLORIDE FEEDS

Feedlot rations contain 5 to 30% urea and typically include potassium chloride, another hygroscopic ingredient. During pelleting, steam in the conditioning chamber and die friction heat liquefy these ingredients and

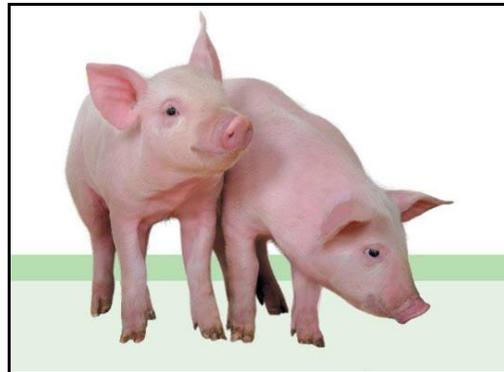
reduce fines (if replacing oil as a lubricant), or to run on lower amperage levels (save energy and lower friction heat).

In most feed types, 2-4 lb per ton inclusion level of **Super-Lube®** is used and up to 6 lb per ton on extremely challenging feeds.

Two pounds per ton of **Super-Lube®** replaces 18-20 lb of fat or oil for lubrication. Pellet quality typically increases when reducing the fat or oil level and in many cases will add up to a savings!

Vegetable oil or animal fats are sometimes used as a lubricant but these are costly and at high levels reduce pellet quality.

Super-Lube® at 3-4 lb per ton can increase production rates and lower die friction heat.



of 40-60% in pelleted rations. In these formulas it is almost impossible to produce a pellet without **Super-Lube®**.

the result is a sticky meal that draws significant mill amperage and produces caked pellets. **Super-Lube®** is needed to reduce high amperage and die friction heat.

TOUGH TO START DIES

Occasionally new pellet mill dies continually plug and are difficult to break in. In addition, certain feed types are tough to get started until the mill warms up. In these instances,

1-2 lb per ton of **Super-Lube®** can be used in the first production batch to help get things going.

RABBIT FEEDS – SMALL DIAMETER ALFALFA PELLET

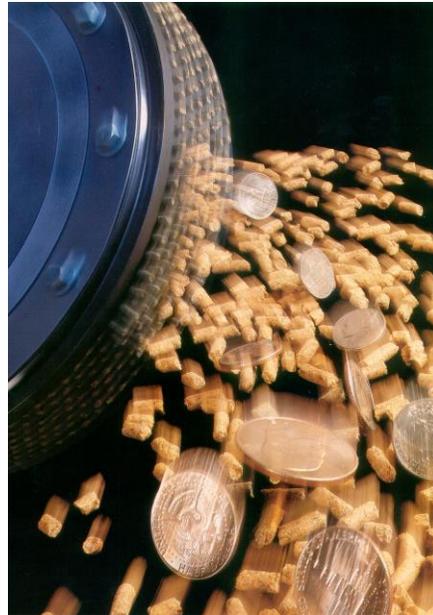
Typical rabbit pellets contain high levels of ground dehydrated alfalfa. This high fiber ingredient combined with a small diameter pellet causes excessive amperage levels and high friction heat. The high fiber level makes steam addition tricky as a small amount is needed for conditioning but too much will cause swelling and cracking after cooling. Most operators do not add enough steam and the pellets become shiny and burnt from friction heat. When oil is added as a lubricant, it increases the fines level. **Super-Lube®** at 1-2 lb per ton can improve conditioning and throughput to reduce plugging, high amperage and burnt pellets.



REPLACES EXPENSIVE OIL FOR LUBRICATION

Many feed mills use vegetable oil or animal fat as a lubricant in hard to pellet feeds. Most of these feeds do not need the increased energy value from oil or fat. In addition, when 2% or more oil/fat is added to the ration prior to pelleting, the pellet durability will begin to suffer and gets worse with higher levels.

Super-Lube® lubricates the die surface but does not interfere with feed ingredient binding like fats or oil. Two pounds per ton of **Super-Lube®** replaces 18-20 lb of fat or oil for lubrication. Pellet quality typically increases when reducing the fat or oil level and in many cases will add up to a savings.

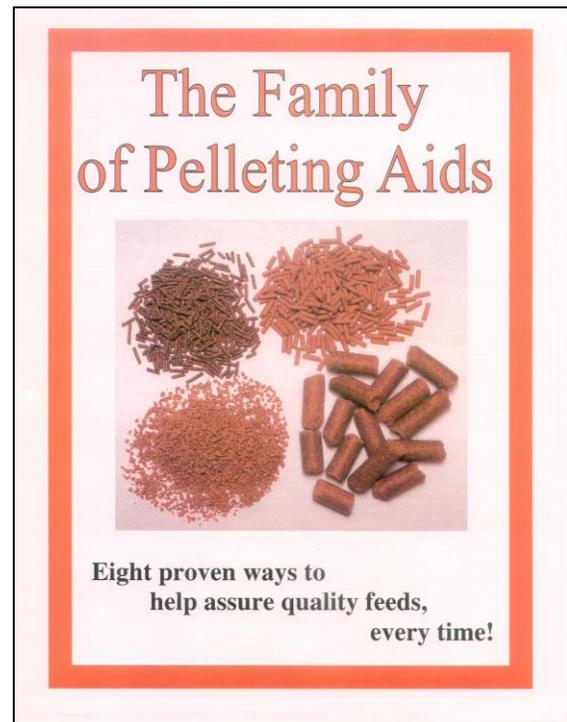
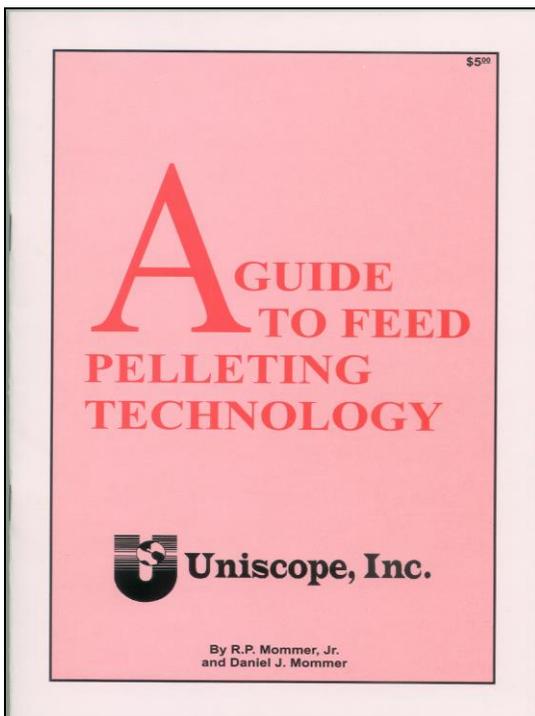


***Call Uniscope and give Super-Lube® a try...
you won't be disappointed!***

www.uniscope-inc.com

**Contact Uniscope to help take the
headache out of pelleting feeds...**

- **Product Technical Booklets**
- **Samples for Testing**
- **Trouble Shooting Assistance**
- **Product Line Brochure** (binders, lubricants, anti bridging agents and water repellent minerals)



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