

# Animate<sup>®</sup>

## Anionic Mineral Supplement

### The Effect of Animate on Pelleting

Pelleting can be described as a process whereby individual ingredients or mixed feeds are agglomerated using heat, moisture and pressure. The purpose of pelleting is to transform a finely divided, sometimes dusty, and difficult to handle feed material and through pelleting, form it into larger particles which are easier to handle, and usually result in improved feeding properties and animal performance. Pelleted supplements are readily used in the dairy industry to supply nutrients to the cow.

For the feed manufacturer, all aspects of feed manufacturing are critical, from the manufacturing of a quality product to the economics of production. With this in mind, we were challenged

to investigate the pelleting properties of Animate as we continued to actively promote it in the dairy industry for transition dairy cows. The early consensus from a number of feed manufacturers using Animate in their pelleted supplements was that they found it to be very pelleting friendly.

To supply present and future customers with some insights into Animate pelleting properties we set out to run a pelleting study at Kansas State University. We used the following supplements to compare the effect of Animate on the pelleting process. The study was conducted on a California Pellet Mill equipped with a 5/32" X 1 1/4" die.

Ingredients	Treatment 1, Control	Treatment 2	Treatment 3	Treatment 4
Animate, %	0	10	20	30
Distillers, %	30	20	10	0
Rolled Corn, %	56.5	64.6	61.3	56.5
Limestone, %	10	4	6.5	10
Dical, %	3.5	1.4	2.2	3.5

Animate performed extremely well compared to the control treatment. At each level of Animate inclusion energy efficiency, rate of thru-put and pellet quality improved. This study confirms the positive feedback we have received in the field on Animate pelleting properties. Animate not only improves the economics of the pelleting process it enhances the quality of the pellet.

Treatment	Electrical Energy, Kwh/T	% Diff.	Production Rate, lbs/hr	% Diff.	Pellet Durability Index, %	% Diff.
1, Control	10.7		4155		84	
2, 10% Animate	9.2	14.0	4664	12.2	87	3.5
3, 20% Animate	8.3	22.4	5278	27.0	92	9.5
4, 30% Animate	7.2	29.9	6414	54.4	95	13.0