

## Product Specifications

### Appearance

White free-flowing powder

Bulk density 0.5 - 4.6

Retention in 200 mesh 10% max

Solubility dilutable to 20% N.W.

Viscosity (50% in water) 100 - 300

cps., pH 7.5 - 8.0

Packing 50 kg/ cardboard drum with plastic liner inside

Storage In a cool dry place; excessive heat and moisture can cause caking

Ingredients Polymethylolcarbamide and other moisture absorbents, Preservatives and dust controlling agents.

Guarantee Nitrogen 25%, free formaldehyde 0.3- 0.5% (max), moisture 4% (max)

Use & Directions

Animal feed:

### DOSE LEVELS

Poultry– and cattle:500 1500 grams per ton.

Use levels above 7.5 kgs. Per metric ton will reduce palatability and will exceed maximum allowed permissible levels of 0.1 ppm free formaldehyde as set by AFCD.

With **CHEMPELL®**, you can produce feed that remains palatable and usable long after other binders have fallen apart. That means more efficient use of feed, decreased waste and better PDI efficiency.

**CHEMPELL®** improves the pond bottom and the bottom line.

**CHEMPELL®** is a low inclusion pellet binder saving important formulation space. Excellent results can be obtained at 500-1500 grams per metric ton.



Organic Chemical Solutions, LLC

Organic Natural Safe Chemical Solutions for Livestock



High quality pellets is the name of our business.

# ChemiPell®

**Advanced Pellet  
Binding Technology**



# CHEMPELL®

## Overview

- About 60 million tons of animal feed is pelleted in the U.S.A. each year.
- Feed is 50-80% of total production costs.
- Industry losses due to fines range from 1-3%.

Feed consumers waste millions of dollars due to non-utilized feed, wasted through broken pellet fines, dissolved aquaculture pellets and wasted mash.

## General Advantages of Pelleting

- Holds together during shipping and handling.
- Delivers more available nutrients
- More digestible by the animal due to gelatinization (*break-down of the grain starch molecule's outer membrane*).
- Conditions feed at temperatures over 220°F.
- Gelatinizes more starches which act as a pellet binder
- Pelleting reduces waste and ingredient separation, improves flavor, ensures balanced nutrition and allows animals to consume feed with less effort.
- If pellets disintegrate, many advantages are lost. Animals regard fines just as we regard the last bit of broken cereal that pours into our bowl from an emptied box.
- The sealed hardboard drums used to package CHEMPELL® insure the product's efficacy is preserved and prevents caking long after competitive products have spoiled. There are many customer testimonials that support the value of our superior packaging.

## The CHEMPELL® Advantage

Most binders used for poultry and dairy cattle rations do not significantly reduce fines such as is the case with ChemiPel®. Untreated or competitive treated pellets may fall apart, have greater degree of fines. It's money down the drain!

## CHEMPELL®:

- Is ideal for all environments.
- Provides a cost efficient solution, which increases the pellet stability in treated rations and improves your return on investment.
- Reduces fines and small particles in pelleted feeds, increasing feed/grain ratios.

## Feed Formulation & Particle Size

Good feed formulation practices can improve pellet binding efficacy in general by:

- Increasing starch levels in mash.
- Reducing fat and oil levels in the mash.
- Reducing use of bentonite-like products.
- Decrease particle size to 200-250 micron range.
- Using ingredients with uniform particle size.

## Mode of Action

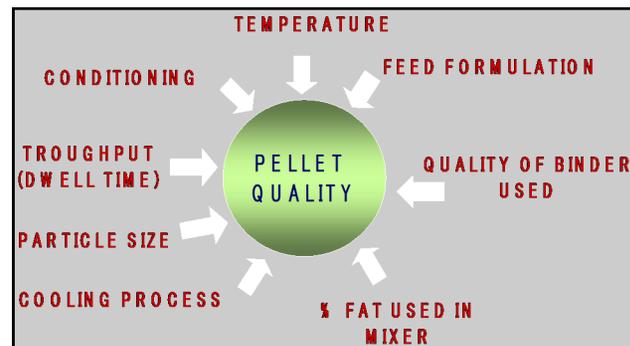
Through highly effective active ingredients,

CHEMPELL® fine powder is able to liquefy during pelleting and form a coherent binding internal mesh for the pellet that will afford it greatly increased durability.

## Lubricity benefits

CHEMPELL® allows feed to be steam-conditioned to higher temperatures. As feed is conditioned it softens, becoming dough-like. Before this happens, the feed becomes too plastic to push through the die holes. By lubricating the holes, CHEMPELL® reduces resistance to extrusion allowing higher conditioning temperatures to be reached. Feed manufacturers seek high conditioning temperature as part of their program to eradicate salmonella and gelatinize starches for better digestibility. Higher lubricity with CHEMPELL® will reduce the energy required to pellet feed, reduce wear on dies and rollers and increase production rates by up to 30%. Increasing production rates usually reduces the cost per ton of pellets produced and allows increased plant capacity. An important feature of CHEMPELL® is that it can lubricate and bind at the same time. Production rates can be increased without loss of pellet durability.

## Some Factors Affecting Pellet Quality



Lost product due to caking will be a thing of the past once you start using CHEMPELL®!

