Superphos
8% OR 12% Phosphorus

A quality source of phosphorus & trace elements

Olsson's Head Office Sydney
19-25 Nelson Road, Yennora NSW 2161
Hotline 1800 804 096
www.olssons.com.au
Why feed phosphorus?

Cattle need phosphorus for almost every vital function of the body:

- Building of bones and teeth, and a structural component of skeletal tissues
- Absorption of carbohydrates such as glucose through intestinal tissues
- Transport of fatty acids throughout the body
- Metabolism of energy
- Facilitation of fat, carbohydrate & protein utilisation
- Improving efficiency of feed utilisation
- Energy transfer reactions
- Normal milk secretion
- Buffering of body fluids
- For pregnant cows, phosphorus is essential for the developing fetus. After calving, it is required for milk production
Classes of animal that require phosphorus the most:

**Young or growing animals**
for growing bones.

**First calf heifer**
for growth, pregnancy and lactation (phosphorus deficiency can delay puberty)

**Late pregnant heifers & breeders**
deficiency can delay cows from returning to heat, growing fetus

**Lactating cows**
phosphorus is needed for milk production
SIGNS OF PHOSPHORUS DEFICIENCY IN THE ANIMAL

- **DEPRAVED APPETITE** causes animals to chew bones, twigs, bark and other strange objects. A possible side effect of bone chewing is botulism, as the botulism toxin develops in decaying flesh, bone and decaying vegetable matter. Bone chewing can become a habit and continue after the deficiency has been remedied.

- **PEG LEG** or stiffened gait

- **WEAK BONES**

- **POOR GROWTH RATES** Animals do not grow as well as pasture conditions indicate. Research results indicate a 10-20% reduction in growth rates.

- **LOW REPRODUCTION RATES** Calving rates can be depressed by up to 40% due to poor growth in young breeders and generally poor condition of the breeder herd.

- **COAT AND CONDITION** Deficient cattle often have a rough, coarse coat and are in poor condition. Lactation can cause severe weight loss.

- **BOTULISM** (from bone chewing—see above)
The best time to feed phosphorus:

- Deficient animals respond best to a phosphorus supplement when their diet has adequate protein and energy (hence feed phosphorus in the wet season)
- Where the native pasture on deficient country contains sufficient stylo, cattle may respond significantly to phosphorus supplement during the dry season because of the extra protein in their diet

To diagnose phosphorus deficiency there is no simple test- blood tests are conclusive but have a small sample group, whereas faecal tests have a large sample group but are not as accurate.
Benefits of feeding phosphorus:

*If phosphorus is supplemented over the wet season on deficient country:*

- Young growing stock can increase their growth by 30-40kg per year
- Breeders can increase weaning rates by 10-30%

**Kidman Springs Phosphorus Trial:**

*In the Kidman Springs Phosphorus Trial, a trial focusing on feeding phosphorus during the wet season:*

- The pregnancy rate was 10% higher
- Heifers were on average 120kg heavier
- Calves were 34kg heavier
- Re-conception rates 25% higher
- Mortality rates 7% lower
- $41 per head spent resulted in $300 gains
Olsson’s Superphos is a multi-nutrient supplement used to reduce phosphorus deficiency and provide energy for metabolism, growth, digestive function, fertility & lactation for all livestock. Available with 8% or 12% phosphorus.

Superphos helps improve fertility and milk production, as well as helping lower mortality rates and aiding in reducing prolapse.

**DIRECTIONS FOR USE**

**Sheep:** 5-10g per head per day  
**Cattle/Horses:** 50-100g per head per day

Intake is recommendation only, higher intakes are normally the result of mineral deficiencies.

**TYPICAL ANALYSIS - SUPERPHOS 8%**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>Copper (Cu)</th>
<th>mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDCP</td>
<td>49%</td>
<td>1250</td>
<td></td>
</tr>
<tr>
<td>Molasses</td>
<td>4%</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Salt (NaCl)</td>
<td>46%</td>
<td>320</td>
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</tr>
<tr>
<td>Calcium (Ca)</td>
<td>Min. 9%</td>
<td>26</td>
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</tr>
<tr>
<td>Phosphorus (P)</td>
<td>8%</td>
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</table>

**TYPICAL ANALYSIS - SUPERPHOS 12%**

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*Available in 20, 40 & 100kg blocks.*
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