

# Zolcal-D

*For use in hybrid laying hens over 50 weeks of age and for rehomed ex-commercial layers at any time. Zolcal-D is also suitable for rare breed layers during and after their second season of laying.*

- Use 10ml Zolcal-D per litre of drinking water. 120ml bottle will therefore make 12 litres of treatment solution.

Zolcal-D is a veterinary formulated liquid supplement to be administered in fresh clean drinking water. It provides supplementary dietary calcium and vitamin D. Layers pellets and meal do contain these nutrients, however once a bird ages, the calcium levels are generally not quite enough to meet the physiological demands of egg production. Additionally, hens lose ability to absorb and mobilise calcium from their bones as they age. Zolcal-D will provide a top up for your hens during this time. The calcium requirement of a laying hen is 5-6 times greater than that of a hen not in lay.

Vitamin D promotes the absorption of calcium in the gut, maintaining calcium and phosphate concentrations in the blood, which enable normal mineralisation of bone. Every day, 4g of calcium is required by a hen; 2g for the shell and 2g for other physiological processes. Some of the calcium is used from the hen's bones which is processed into calcium carbonate which assists in shell formation. This can make layers in later life susceptible to osteoporosis (brittle and poor bone density) and the shell of the egg becomes thinner if they do not receive an adequate supply.

Although Zolcal-D may not stop shells becoming thin as this is a partially natural occurrence, it will certainly provide the ageing layer with an adequate supply to assist with staying in optimal health alongside improving shell quality.

Poor egg production or issues with shell quality are not always due to a deficiency in calcium they may be due to disease. If you have any concerns, call your vet.

## **Administration via drinking water:**

Use 10ml Zolcal-D per litre of drinking water for 5-7 days during periods of intermittent shell issues. Use at the same rate continually with the older layer. Make the solution fresh as required.



**Administration in feed:**

Apply or mix 2.5ml Zolcal-D to every 250g of feed. Mix fresh as required.

Any excess calcium and vitamin D is excreted as by product if not required by the bird.