



Vitablend Antioxidants for Feed and Pet foods

Oxidation of feeds irreversibly alters the quality of the feed causing off- flavours, unwanted aromas and poor quality feed. Oxidation is the main enemy of oils and fats and if foods are susceptible to oxidation Vitablend has the experience and product range to ensure feed products retain maximum shelf life.

Feeding Stuffs

As oxidation can cause deterioration in the quality of the foods we eat a similar type of oxidation can occur in feeds and feedstuffs resulting in the deterioration of vitamins, pigments (carotenoids) amino acids and degradation lowers the nutritional value of the feed.

Pet foods

Oxidation of fats (lipids) in extruded pet foods can produce free radicals and hydroperoxides that further react forming aldehydes, ketones, alcohols and short chain esters. These oxidation products can cause off-odours. This oxidation destroys essential fatty acids, fat soluble vitamins and even in severe cases produces toxicity (Kappus 1991).

Antioxidants

Safe, effective and efficient antioxidants such as BHA, BHT, gallates and ethoxyquin have been used by the feed industries for years to preserve nutrient quality and protect product freshness in animal feeding stuffs. Other antioxidants such as tocopherols (vitamin E), rosemary and synergists such as ascorbic acid (vitamin C) and its ester ascorbyl palmitate, as used in foods, are receiving more and more attention and use as recognition of their efficacy is recognised, especially for pet food use and aquaculture.

Vitablend is committed to providing cost effective antioxidant systems for all parts of the feed and pet food process as well as developing new and novel antioxidants systems for aquaculture. This commitment mirrors the growing needs to supply alternatives to commonly used antioxidants in response not only to changing food additive laws in some countries but also in response to negative consumer opinions about traditional antioxidant systems.

Vitablend's wide range of formulated antioxidants for use in feeds are either based on the use of synthetic antioxidants such as BHA, BHT, ethoxyquin and propyl gallate or for a "cleaner" label declaration there are natural antioxidants, such as tocopherols, rosemary extracts and fat soluble ascorbates.

All these antioxidants can be provided either as unformulated additives or for ease of use and more cost effective as formulated products.

Solid forms		
AA	E300	L Ascorbic Acid
SA	E301	Sodium L Ascorbate
BHA	E320	Butylated Hydroxy Anisole
BHT	E321	Butylated Hydroxy Toluene
EQ	E 324	Ethoxyquin
PG	E310	Propyl Gallate
AP	E304	Ascorbyl Palmitate
MTL	E306	Natural Mixed Tocopherol (vitamin E)
RE		Pending EU Rosemary extracts Additive status

Some examples of Vitablend's range

For feed applications all our antioxidants comply with EU feed additive legislation and in use dosage recommendations.

Vitablend Antioxidants for Feed and pet food

Apart from providing single antioxidant ingredients we specialise in providing tailor made formulated products for a variety of applications including meal and render for pet foods; fish meal and oils for aquaculture and protection of sensitive vitamins in feed products. These products are available in liquids for easy dosing or as free flowing powders for dry blend applications.

Animal Feed & Pet Food

Synthetic	Natural
VB BHA 90FF - a free flowing powder form of BHA.	TOCOPET - a natural effective all round antioxidant in liquid form.
VB BHT Feed - a free flowing powder form of BHT.	Tocoblend P35 a dry powder form of gamma and delta tocopherol (vitamin E).
VB PG – Gallate - for use in feed and pet foods.	D alpha tocopherol - natural effective Vitamin E.
VITA PET 20-8-8 - a superior synergistic liquid blend of 3 main antioxidants ideal for pet food & rendering.	Tocoblend AT - A synergistic liquid blend of vitamin E and vitamin C ester designed for marine oils.
VB 20 & 26 - Effective, affordable combinations of antioxidants in liquid for Pet foods and feeds.	Tocoblend L70 - a liquid easy to use free flowing natural product ideal for marine oils and pet foods.

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