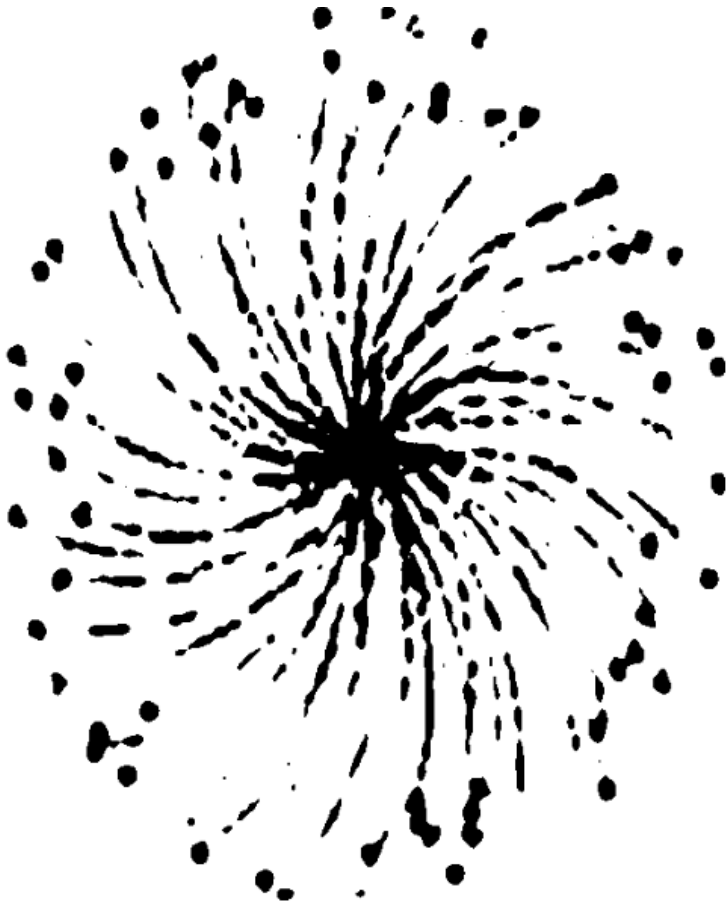


DIATOMACEOUS EARTH

(Food Grade)



Pet Protector Hunter Valley NSW

STOCKIST & NETWORK DISTRIBUTION

HUNTER VALLEY NSW, AUSTRALIA

WHAT IS D.E.?

Diatomaceous Earth, or DE, is an organic, completely safe and affordable natural mineral that may be used to feed and nourish crops and farm animals, fight agricultural disease and insect predators, and promote growth in all areas of horticulture.

Indeed, scientific research continues to provide evidence that natural silica is a leading material for professionals and hobbyists wanting to substantially enhance agricultural and horticultural productivity and quality, and for farmers and owners of domestic animals by providing physical and nutritional barriers against mites, intestinal parasites and fleas.

DE is growing rapidly in popularity and as it can be used as an alternative to many chemical products around the home and garden and also with their pets.

DE is an organic product and our supply that is sourced directly from Mount Garnet QLD, which ranks amongst the top 3 DE supplies in the world when compared for analysis. The quality is considered premium amongst other food grade supplies.

PARTICLE & GRADE DESCRIPTIONS

DE Micro10™ is Australia's premium food grade Diatomaceous Earth (natural amorphous silica). The particle size is an average of *10 microns*. Light enough to be suspended in water it can be used in hundreds of applications - for families, insects, internal parasites, bed bugs, food and grain storage, all horticultural uses including foliar sprays, and for horses, chickens and all livestock. Containing a high level of soluble silica, DE Micro10™ is a completely natural, organic product

With a particle size averaging 10um this powder is like talc in texture, making very effective for many uses either applied dry or wet.

The powder stays suspended in liquid for a long period so is able to be transported and used in a wide variety of applications. The small particle size ensures that the availability of *soluble silica is maximised*.

Suggested uses: Agriculture, Horticulture and around the garden where it can be added to liquid spraying systems to ensure good coverage and least wastage.

NOTE: This product is currently only available on request

Food Grade SUPERFINE has many applications, and will appeal to users who are seeking a fine powder with 'no grit' or larger particles. Our supplier in Queensland takes the raw, coarse material to their own processing plant and put it through a number of additional processes to produce a powder that is easy and pleasant to use.

This is exactly the same quality DE as the Regular Food Grade but has been extra-milled and sorted to an average particle size of less than 300 microns (or 0.3 mm). It has been analysed by the CSIRO - with the particle analysis showing 90% containing less than 200 microns. It is a creamy/whitish colour that feels similar to milk powder, easily mixed with food or liquid (although no DE is water soluble).

No-Grit Superfine is more voluminous than Regular Food Grade.

Suggested uses: Aside from family use, No Grit Superfine has many uses including in pet and animal fur, with insects, spraying on vegetables and fruit trees, and for use with horses and livestock.



Food grade REGULAR is milled to a maximum particle size of approximately 2.00 mm and so is a mixture of powder and larger 'crunchy' particles.

It is an excellent general all-purpose DE and has numerous uses, as well as animal feed supplement it can be used for drying our chicken cage mess, providing a dust bath for the hens, use in the garage for mopping up oil spills as well as many other uses.

Suggested uses: with insects, such as ants and cockroaches around the outside of the house and also in the garden as a soil supplement. Also

ideal to use in your garden (mixed in with garden soil), with fruit trees, with pets and livestock.



Poultry and Bird Feed Supplement - of all farm animals, chickens and ducks respond the fastest to natural silica supplementation. Scientific trials show that when assessed against a control group, chickens fed DE were noticeably larger, with more meat, stronger bones healthier and free of parasites.

- *Feed supplement*
- *For use with internal parasites*
- *Reduces smells, fewer flies*
- *Improves the health of the chickens*
- *Improves the quality of the eggs*
- *Increases the quantity of eggs produced*
- *Save with lower production costs*

We recommend that Diatomaceous Earth replaces 15% of the feed given to poultry to enable the DE to work efficiently. When used in this quantity, the DE will reduce the amount of commercial feed required, improving production and saving on feed costs at the same time.

NOT ALL D.E. IS CREATED EQUAL

Not all Diatomaceous Earth silica products are the same, some are high quality, some are low quality and some can have a negative effect. In order to be beneficial the *Diatomaceous Earth* product must have:

1. A high level of available silica
2. Provide a high level of immediately soluble silica
3. Contain beneficial trace elements
4. Contain no toxic levels of any element, pollutants or heavy metals

Many silica products meet some of these requirements however very few meet them all. Some products have high levels of silica but are contaminated with heavy metals and other toxins.

Our business is proud to offer a supply of natural product of the highest quality. Our amorphous (freshwater) silica is chemical and additive-free, and contains no toxic levels of any element. It has a high level of immediately soluble silica, and is completely safe for use in accordance with the dosage rates contained within this information booklet.

THE BENEFITS OF SILICA ARE MANY

In today's grains, there is actually a shortage of silica. Years ago, the silica found in our foodstuffs was adequate, but with today's hybrids and depleted soils, only about 1/3 of the silica needed is supplied in our food.

Diatomaceous Earth is a simple and inexpensive way to get the silica your body needs.

Any food grade Diatomaceous Earth uses other than those approved by the APVMA are strictly reports of what hundreds of users and ourselves have done with Diatomaceous Earth.

NATURAL SILICA TYPICAL ANALYSIS

Silica (SiO₂)	> 70%
Calcium (Ca)	1.00%
Magnesium (Mg)	0.60%
Manganese (Mn)	0.50%
Phosphorus (P)	0.01%
Potassium (K)	0.20%
Iron (Fe)	4.00%
Cobalt (Co)	5mg/kg
Molybdenum (Mo)	5mg/kg
Sulphur (S)	42mg/kg
Zinc (Zn)	42mg/kg

EXAMPLES OF JUST A FEW WAYS DE CAN BE USED

- **GARDEN PESTS** like mites, aphids, thrips, ants, slugs, snails, QLD Fruit Fly & Cucumber Beetle (minor measures are recommended but DE shouldn't harm earth worms)
- **SOIL QUALITY** increased nutrient content and reduces fertilizer leeching
- **CATTLE FEED SUPPLEMENT** increased milk production and reduction in harmful parasite treatments
- **ORGANIC GRAIN STORAGE** insect & moisture deterrent
- **BED BUGS AND OTHER HOUSEHOLD PESTS** like Garden Pests, the shape of DE allows the product to nick the bodies of insects and absorb the waxy moisture that their bodies are made of inevitably causing them to dehydrate. Due to the methodology of this organic insecticide pest can never become immune to its effects.
- **USE IN POULTRY** one of the most popular of all domestic uses, DE can keep mites off chickens, cleanse their digestive tracts of internal parasites, and provide essential minerals to help chickens lay bigger, healthier, more nutritious eggs.
- **HORSES** various benefits from controlling moisture and pests in barns, anti-cake agent in feed storage bins and natural de-wormer which passes through to stools and aids in reduction of odours and fly larvae that come into contact with it.
- **DOGS & DOMESTIC PETS** like horses are able to obtain internal health benefits like protection from intestinal worms, maximise nutrient absorption via the intestinal wall and aid organ health and all round

immunity benefits. Especially effective in bone health so a good addition for any senior pet as joint movement becomes difficult.

- **INSECT CONTROL & PREVENTION** as mentioned briefly above, DE is used as a preventive measure in places like chicken coops, barns, and kennels. It can even be used right in your own home to combat fleas, gnats, chiggers, and bed bugs in your carpet, walls, and bedding.
- **HUMAN HEALTH BENEFITS** the atomic structure of DE - very fine-sized, rough-shaped, and porous - makes it very good for microscopic scrubbing. It has been used in toothpaste and as a natural skin exfoliator. The fineness of DE allows it to scrub off dead skin cells leaving healthy, beautiful skin behind. Effective externally, Diatomaceous Earth is also an effective internal abrasive. Passing through the digestive tract, Diatomaceous Earth cleans organisms from the intestines and many consumers of Diatomaceous Earth report increased bowel regularity. New research suggests that the ingestion of food grade Diatomaceous Earth helps to lower blood cholesterol concentrations while positively influencing lipid metabolism leading to healthy heart function.
- **POSITIVE ENVIRONMENTAL IMPACT** While the level of chemical pollutants produced by agricultural runoff becomes more serious, Diatomaceous Earth offers a naturally occurring, non-chemical alternative to industrial pesticides. Widespread substitutions of DE for toxic chemical pesticides will help stem global pollution. Less toxicity in the world's soil, air, and water, leads to a more sustainable

QUICK FACTS

- Nearly 90% of the composition of Diatomaceous Earth is a rock called silica. One component of silica - silicon - is the second most abundant element on earth after oxygen. We require silica as part of a healthy diet. Silica is an essential trace mineral necessary for the formation of tendons, cartilage, blood vessels, and bones while contributing to the healthy functioning of the heart, liver, and lungs.
- Diatomaceous Earth's effectiveness comes from its microscopic structure. Diatomaceous Earth is similar to sand in that it is composed largely of silica. Also, like sand, DE is good at sticking to things whether that's animal skin or the slimy bellies of pests.
- Diatomaceous Earth was first marketed as a pesticide in 1960.
- Industrial grade Diatomaceous Earth has been calcined by treating it with heat. In this form it is not safe for consumption and often contains high levels of crystalline silica which can cause silicosis.
- *In clinical observations of feeding dogs over 35 lbs. 1 tablespoon/day and under 35 lbs. 1 teaspoon/day of Diatomaceous Earth, within seven days allova disappeared from stools. Diatomaceous Earth controlled Ascarids (Toxacara canis), Hookworms (Anclyostrongylus caninum), and Whipworms (Trichuris vulipis).*

CLINICAL OBSERVATIONS OF FEEDING CODEX FOOD-GRADE DIATOMACEOUS EARTH TO DOGS, O.C. Collins, DVM, Midland Animal Clinic and Hospital, Midland, Texas

- *Research has found that this ratio of DE to feed (15:85) will control any worms that are present in the stomach of the birds and will reduce the smell emitted by droppings. *The absence of any internal parasites as well as the improved overall health and well-being of the birds, can lead to measurable weight increases.*

***Endicott-Davies (2010)**



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