

Nutricote 14-14-14, Type 100 Controlled Release Fertilizer

What is Nutricote?

Nutricote is characterized by coating nitrate compound fertilizers with a special resin. The duration of nutrient release is controlled by the composition of the resin and the kind and quality of a special "chemical release agent" added to the resin. This special release agent has resulted in a dramatic technological improvement in the consistency and precision of nutrient release from Nutricote controlled release fertilizers. When Nutricote is applied to the soil, the water in the soil enters the granule through micro pores, dissolving the nutrient elements in the granule. The nutrient elements will then be released steadily through the same pores based on the amount of the special release agent. This allows all Nutricote granules to be very uniform in size and thickness of coating. Most Nutricote granules are 3 to 4 mm in diameter.



Unique Nutricote Qualities

- True control of nutrient release based on temperature
- Optimum fertilizer levels are maintained because leaching of nutrients is minimized
- Highest degree of crop safety
- Flexibility of release periods from 40 to 360 days at 77° F
- Resin coating is very smooth and uniform with no breaks or cracked material that could allow uncontrolled release of nutrients
- Uniform particle size allows easier and precise mechanical distribution
- Only the highest quality N, P, & K
- High nitrate nitrogen content.

What Affects Release

The release rate of Nutricote is influenced by soil temperature -- that is, the higher the soil temperature, the greater the release rate. Absorption of nutrients and water by plants is generally increased with increasing temperature and plant growth will become more vigorous as a result. Nutrient supply through Nutricote nicely matches the physiology of plant response to temperature. The release rate of Nutricote is not significantly influenced by soil moisture levels, and it is unaffected by soil pH. Nutricote does not depend upon microbiological decomposition for its action. Soil or growing medium mixed with Nutricote can be stored up to one month if temperatures are maintained below 50°F. Because Nutricote is affected by temperature, it should not be steam sterilized as the high temperatures can result in the acceleration of nutrient release.

Nutricote in Conjunction with Liquid Feeding

Nutricote used in conjunction with water-soluble fertilizer is another option for the grower. Using Nutricote at half the recommended rate and feeding with liquid fertilizer at half the recommended rate or as required will give the grower optimum control over the nutrition of the crop.

Nutricote Formulations and Types

Nutricote Controlled Release Fertilizers are available in four analyses. Each analysis has a range of release periods designated by Type. For example, Type 100 means that at a consistent temperature of 77° F, Nutricote will release 80% of its nitrogen evenly over a 100-day period. At

higher average temperatures nutrients will be released more quickly and at lower temperatures they will be available over a longer period of time.

Sensitive Crops: Rhododendron, Azalea, Gardenia, Ferns, Orchids, Forestry Seedlings, Greenhouse Vegetables, African Violets

Medium Feeding Crops: Nursery Crops, Cut Flower Crops, Bedding Plants, Woody Ornamentals

Heavy Feeding Crops: Most Pot Crops, Most Foliage Crops

Nutricote 14-14-14 Analysis:

Total Nitrogen (N)*.....14%
 7% Ammoniacal Nitrogen
 7% Nitrate Nitrogen
 Available Phosphoric Acid (P2O5)*.....14%
 Soluble Potash (K2O)*.....14%

Derived From:

Ammonium Nitrate, Ammonium Phosphate, Potassium Nitrate, Potassium Sulphate, Calcium Phosphate

Chlorine, Not More Than.....1%

*The Nitrogen (N), Phosphorus (P2O5), and Potassium (K2O) sources have been coated to provide 14% coated slow release nitrogen, 14% coated slow release available phosphoric acid, and 14% coated slow release soluble potash.

RATE IN POUNDS PER CUBIC YARD

	Sensitive Crops	Medium Feeding Crops	Heavy Feeding Crops
Type 40	1 ¾	3 ½	5
Type 70	2 ½	5	8 ½
Type 100	3 ½	7 ½	12
Type 140	5	9	13
Type 180	7	12	15
Type 270	9	14	17
Type 360	12	17	20

RATE IN POUNDS PER 100 SQUARE FEET

	Sensitive Crops	Medium Feeding Crops	Heavy Feeding Crops
Type 40	2	5	8
Type 70	4	9	14
Type 100	5	12	20
Type 140	8	15	22
Type 180	12	20	28
Type 270	16	24	32
Type 360	20	28	36