

### **25.5.10 (Compound)**

#### **Properties**

25.5.10 compound fertilizer has been developed according to the results of scientific studies conducted with tea plant, a quality plant, only the leaves of which consumed, on the soil characteristics of areas where it cultivated as well as nitrogen, phosphorus, and potassium requirements of it. This fertilizer contains 25% of plant available nitrogen (N), 5% phosphorus (as  $P_2O_5$ ), and 10% potassium (as  $K_2O$ ). With its granular structure, 25.5.10 compound fertilizer is suitable for manual and mechanized application.

#### **Agricultural Use**

Although it has been developed specifically for tea culture, it can also be used in fertilization of phosphorus-rich soils or plants that require few phosphorus. Particularly, in production of table potato and in fertilization of the vegetables grown for their leaves, it can be safely used.

25.5.10 compound fertilizer should, likewise the other compound fertilizers, be applied and incorporated with soil in tea gardens in advance of new shooting in spring and, for the other plants, prior to seedling planting or seeding. Application rates must be determined according to soil analysis.

Since the tea production areas are very sloping and receive excessive rainfall, 25.5.10 compound fertilizer must be incorporated with soil insofar as circumstances permit. The quality of tea plant's leaves is directly linked to fertilization. The amount of nitrogen taken up by tea plant from soil is 4- to 5-fold of phosphorus and 2- to 3-fold of potassium. That's why; according to latest scientific results, 25.5.10 compound fertilizer is the most appropriate fertilizer for tea culture.

The pH values of tea garden soils have decreased to below 4 due to excessive precipitation and use of ammonium sulfate for top dressing. Therefore, for top fertilization, 26% N CAN fertilizer should be used instead of ammonium sulfate fertilizer. This is inevitable for high-quality tea leaves. Besides, based on a soil analysis, liming once every 3-5 years is necessary to increase the pH values of tea garden soils to a level between 4.5 and 5.5.