

## METHOD OF FERTILIZER SAMPLING AND FORWARDING FOR ANALYSIS

The accuracy and objectivity of the analysis results strongly depends on compliance with the requirements for sampling fertilizers, and not only from the quality of laboratory procedures.

During the selection of fertilizer samples for chemical analysis, the requirements of ДСТУ EN 1482-1:2017 must be observed.

PACKING AND TOOLS. Shovel or cup, bucket, plastic bag (for solid fertilizers); plastic bottle 0,5-1,5 l, funnel (for liquid fertilizers). All tools should be clean. The quality of the packaging should prevent its damage during transportation. Packing for transportation of hygroscopic fertilizers (calcium nitrate) should be sealed hermetically.

METHOD OF FERTILIZER SAMPLING. From several places in the mass of fertilizers taken several single (point) samples, which are mixed together, forming a combined sample. The mass of each point sample should be approximately 200-300 grams.

- from the container up to **50 kg**: pour the contents of the package out on a clean polyethylene surface, and from several places we select spot samples;
- from the **big-bag**: we select 4-6 point samples below the fertilizer surface by 10-15 cm;
- for fertilizers that are piled: select 10-20 point samples below the surface as evenly as possible in the mass of fertilizer.

- during the sampling of **liquid fertilizers**, the content in the container is thoroughly mixed. For this container turn 20-30 times. Large containers are mixed with stirrers. If there is a solid precipitate in the container, then the liquid fertilizers is poured into another container, the precipitate is stirred and the liquid is gradually poured back, stirring continuously. Wash a plastic bottle or other container with fertilizer. Fill it with 1/3 of fertilizer, close it and thoroughly shake. Empty the bottle. Repeat 1 more time. After that, fill the bottle with fertilizer.

PREPARATION THE AVERAGE SAMPLE OF THE FERTILIZERS. The contents of the combined sample are thoroughly mixed in the dry and empty bucket from which the final sample is selected. The weight of the final sample of fertilizer for chemical analysis should be not less than **0,5 kg (l)**, and to determine the chemical and physical parameters (research packages F33 and F34) - not less than **1,5 kg**. If the research package F41 (Chlorides in fertilizer) is ordered at the same time as another fertilizer package (in which this analysis is not expected), the sample weight does not increase and is 0.5 kg (l).

**Each sample must be marked with a label.**

### LABEL

№ of the sample	
Customer: company	
contact person	
phone number	
e-mail	
The name of the fertilizer	
Lot number	
Number and name of the research package	

DELIVERY. Independently at the address: Kakhovka, st. Pivdenna, 4, or delivery service Nova Poshta, Kakhovka, department number 3, recipient: «TerraTarsa Ukraine» LLC., EDRPOU code 37871328, tel. 0663432518. The possibility of sending other services (KSD, Mist-Express, etc.) must be agreed separately.