

Ultra Boost (Powered by Pure Fast technology) – The new invention....

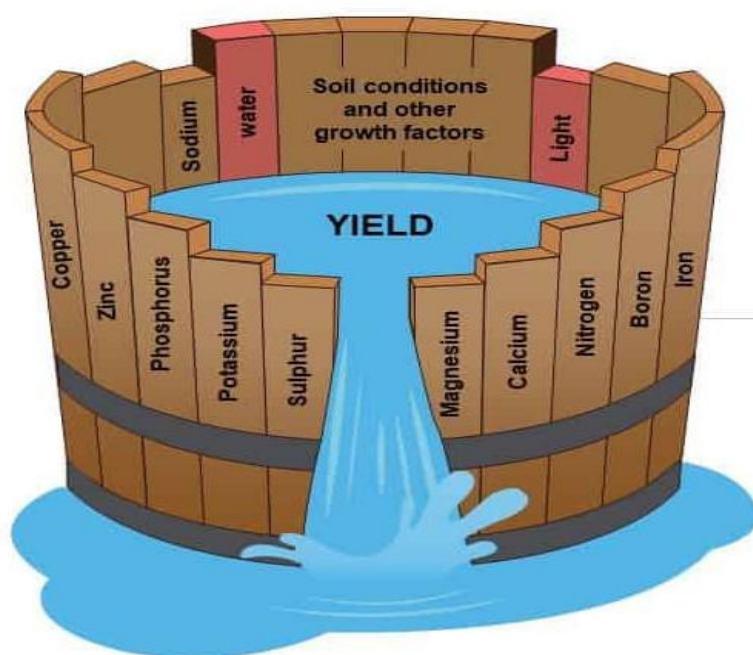
Introducing the first of its kind, high purity, fast acting non coated granular fertilizer made from the highest quality raw materials that is 100% Micro Ionic form. Our finest composition creates a powerful and effective nutrient source which is readily available for total absorption by the plants in all soil conditions. Our unique drying process has eliminated the need for unwanted elements like binders & coatings to create the granular structure.

ULTRA BOOST MAJOR KEY ADVANTAGES

1. WE PROVIDE RIGHT NUTRIENT

ULTRA BOOST has the best nutrients ratio or formulation and has nutrients that can be absorbed by plants simultaneously at the same time. The nutrient absorption mechanism by plants is like the barrel theory, the yield is often limited by the least absorbed elements, and in other words, as long as the nutrients applied via manuring cannot achieve the overall balance of absorption rate and be absorbed by plants at the same time, then the yield will be significantly reduced.

It is like the water that can be stored in a bucket to the level that is depends on the lowest plank rather than the highest one. ULTRA BOOST's technology is to ensure that all the nutrients provided are absorbed by the plant at the same time, which is equivalent to the wooden planks of the barrel being pulled up at the same time, which can help plants to achieve the best ideal FFB production.



2. RIGHT RATE (A LITTLE IS A LOT)

Ultra boost is the purest granular fertilizer type available in the market now, 5 to 10 time higher nutrients supplying power and efficiency than other fertilizers. The higher the purity of the ions, the more nutrients the plant can get or uptake. Ultra Boost 's ionic purity in this sense is relatively high, thus only a small amount of water or humidity is needed to dissolve it into an ionic state. All the superior raw materials being used for this product can also be absorbed by plants immediately without any waste.

TEST FOR EFFECTIVE NUTRIENTS / EC TEST DOSAGE / EC

	LOCAL COMPOUND	Ultra Boost	RATIO
1 GM / 100 ML WATER 🕒 15:32 - 15:47 🌡 27.5°C	1.23	6.15	1:5
1 GM / 100 ML WATER 🕒 15:57 - 16:12 🌡 26.0°C	2.30	11.96	1:5.2
1 GM / 100 ML WATER 🕒 16:23 - 16:38 🌡 25.8°C	3.35	18.33	1:5.5

3. RIGHT TIME- Application for all weather

ULTRA BOOST IS A FUNCTIONAL FERTILIZER. In the face of unpredictable climates, plantation or estate owners can still apply this fertilizer on time, which is difficult to do with other type of fertilizers in the market. During dry season for instance, the phenomenon or incidence of palm oil trees under fertilize are greatly minimized because of its uninterrupted nutrients supply capability thus enable relatively stable yield to be achieved all year round.

Sample Description :
B61986 – Local Compound
B61987 – High Tower Compound
B61988 – Local Compaction
B61989 – Ultra Boost

Test Description	UOM	B61986	B61987	B61988	B61989	Method or Equipment Used
Solubility	g/100ml	1.1	1.8	0.5	29	Gravimetric

- End of Report -

*IN MALAYSIA ANNUAL RAINFALL ABOVE 2500MM IS A CONSIDERED WET SEASON. WHILE BELOW 1800MM IS A DRY SEASON. (THE AVERAGE MONTHLY RAINFALL THRESHOLD IS 150MM).



Annual Rainfall

2500mm



Average Daily Rainfall

6.85mm

 <div>Fertilizer Type</div>	Solubility (G/L)	Fertilizer Rate (g)	Dissolve the required amount of water (L)	Number of days required to dissolve (DAY)
Local Compound	11	3000	272.73	39.82
Local Compaction	5	3000	600.00	87.60
Imported Compound (High Tower)	18	2000	111.11	16.22
Ultra Boost	290	400	1.38	0.20


Annual Rainfall

1800mm


Average Daily Rainfall

4.93mm

<div>  Fertilizer Type </div>	Solubility (g/l)	Fertilizer Rate (g)	Dissolve the required amount of water (L)	Number of days required to dissolve (DAY)
Local Compound	11	3000	272.73	55.30
Local Compound	5	3000	600.00	120.00
Imported Compound (High Tower)	18	2000	111.11	22.53
Ultra Boost	290	400	1.38	0.28

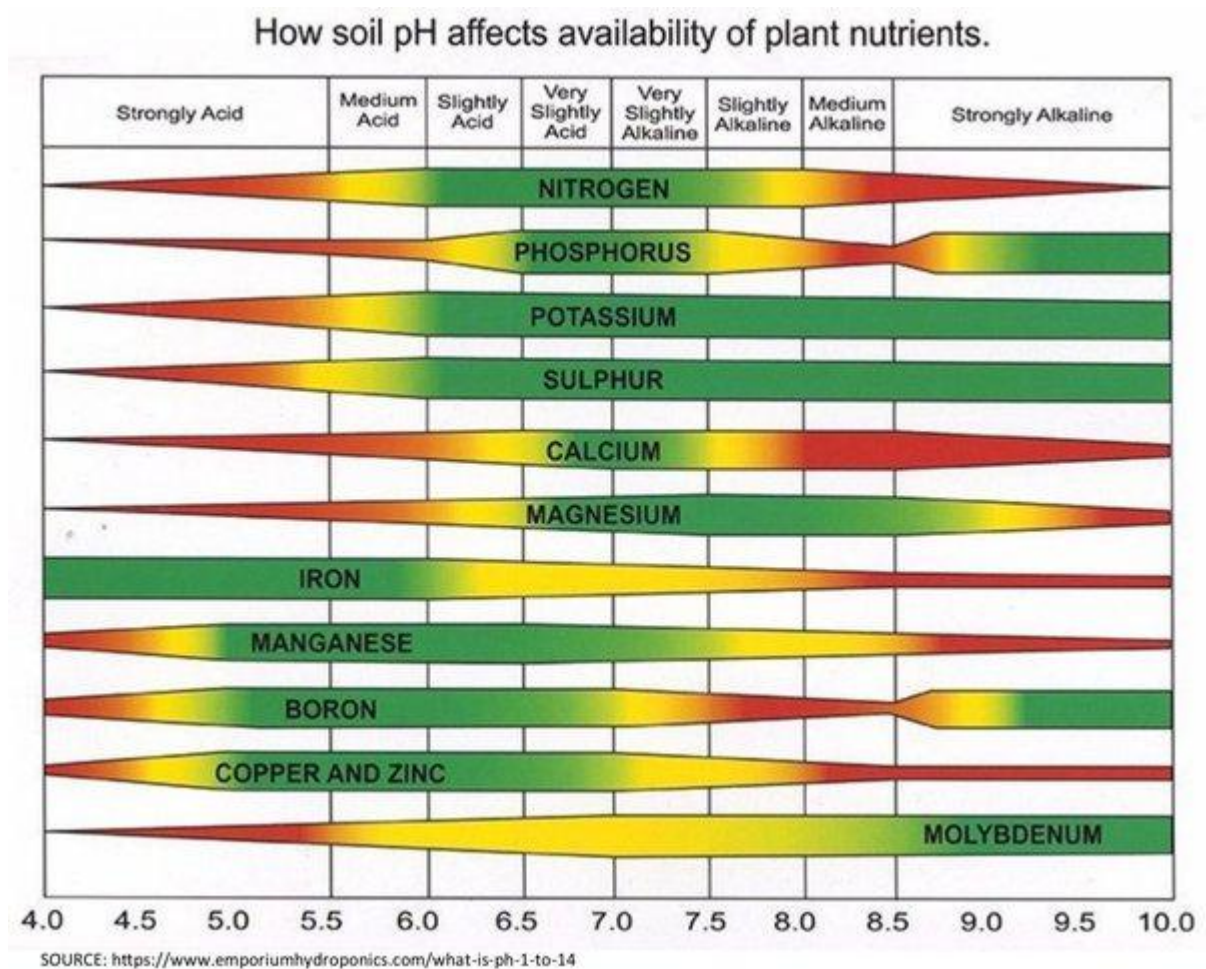
4. RIGHT PLACE

It is generally applied next to the oil palm fronds heap or stacking rows area, in where it is relatively humid and most of the capillary or feeder roots are concentrated for maximum nutrients uptake. Ultra Boost only required in a small amount so it can be easily applied effectively to concentrate on the feeding point. (Compared with the application of 2-3kg of local compound, the workload is virtually reduced and the problem of weeding control and soil damage is also greatly reduced).

5. Perfect Solution pH Level


Potassium chloride and ammonium chloride is an acidic fertilizer biologically as its ammonium ions and potassium ions can be replaced with hydrogen ions in the soil, so that more hydrogen ions are released into the soil solution (chloride ions and hydrogen ions combine to become hydrochloric acid) causing the soil pH value to decrease thus strongly inhibit the biological activity of soil microorganisms, resulting in fertilizer nutrients cannot be converted/absorbed by plants. This detrimental effects became more prominent with the increase of application frequency throughout many years due to its more obvious and drastic acid-causing effect.

ULTRA BOOST ON THE OTHER HAND, ITS PH IS ALMOST NEUTRAL AT 6.2-6.5 PLUS ITS CHLORIDE FREE BASE, THEREFORE WILL NOT FURTHER WORSEN THE ACIDITY OF THE SOIL.



6. Non-Heavy Metal Raw Materials

Heavy metals such as lead, mercury, cadmium, arsenic, nickel, etc., once its accumulation in the soil exceeds the set standard, the growth of plants including oil palm will decline rapidly and it is also the most likely hazardous elements that will cause biological toxic reactions to the plants , Ultra Boost is produced from heavy metal-free raw materials thus it is a safe product and does not provide this kind of toxicity risk to the plant or to the soil.

 Elements	Target Values of soil (mg/kg)	Intervention Values of soil (mg/kg)	Permissible Values of plants (mg/kg)
Cd (Cadmium)	0.8	12	0.02
Cr (Chromium)	100	360	1.3
Cu (Copper)	36	190	10
Pb (Lead)	85	530	2
Ni (Nickel)	35	210	10

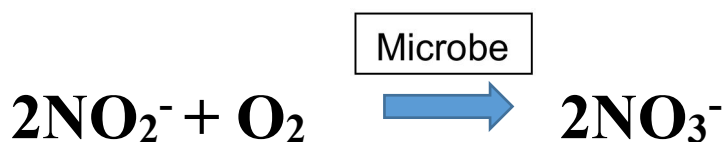
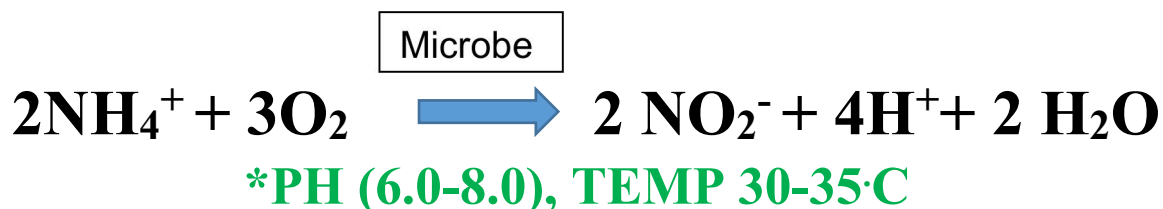
*Target values are specified to indicate desirable maximum levels of elements in unpolluted soils.

*Intervention when remedial action is necessary; Source: Denneman and Robberse 1990 and Ministry of Housing, Netherland 1994.

7. Suitable for Various Type of Soil


For general raw materials, soil requires 5 major conditions (temperature, moisture, activity of microorganisms, acidity and alkalinity and air permeability) to be converted into a form that can be absorbed by plants.

ULTRA BOOST is an ionic technology product that requires only a small amount of water to be converted into a readily available form that can be easily absorbed by plants. Therefore, Ultra Boost does have advantages edge compared to other fertilizers in different soil environments.



8. Easily and highly efficient

*Each worker can apply up to 1500 kg (30 bags) of normal fertilizer per day
Each worker can cast 1000 kg (40 bags) of Ultra Boost per day.

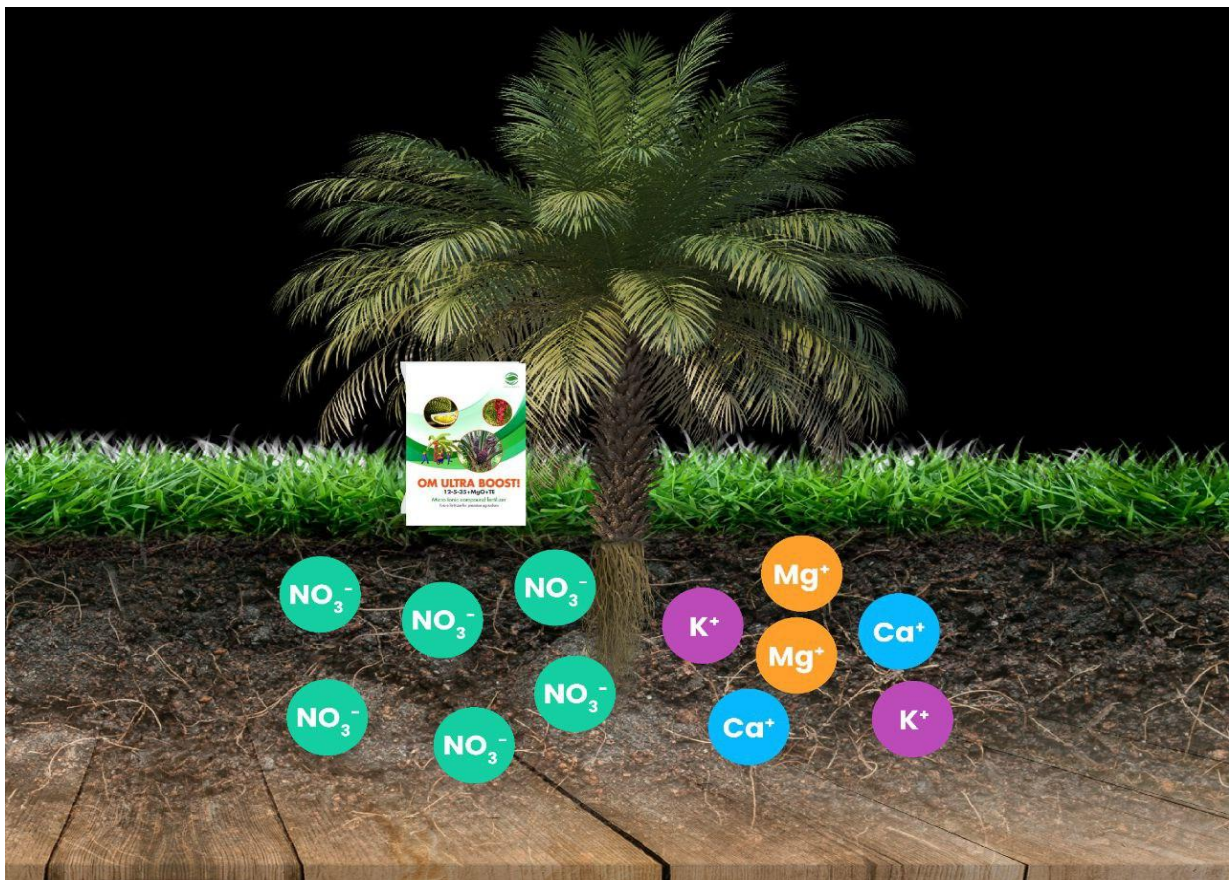
 Fertilizer Type	Fertilization Rate/Oil Palm Tree (kg)	Amount Required Per Acre (kg)	Area Per Worker/Day (Acre)
Local Compound	3	165	9.09
Local Compaction	3	165	9.09
Imported Compound (High Tower)	2	110	13.64
Ultra Boost	0.4	22	45.45

With Ultra Boost , worker's manuring productivity can be increased by 3.3 to 5 times more efficient than normal compound or compacted fertilizer thus overcome problem of labour shortage, short manuring window, late manuring round completion, high labour, storage and transportation costs.

9. ULTRA BOOST Nitrogen Form – Help Uptake of Other nutrient

Nitrate-N is immediately available to the palm and is the preferred form of nitrogen which is taken into the plant. Ammonium-N is mainly converted to nitrate-N and so is slightly slower to become available.

Nitrate form in Ultra Boost helps the uptake of Cations such as Ca^{+2} , Mg^{+2} & K^{+} , thus allowing more nutrients in the soil to be absorbed by roots which will help oil palm trees grow healthier, more fertile and boost fruits productivity



Vice versa Ammonium (NH_4^+) form will competes with the uptake of other Cations in the soil (Ca^{+2} , Mg^{+2} & K^+) thus resulted to fertilizer cost wastage and less oil palm fruit production.

