



Langfos Soft Rock Phosphate

Soft Rock Phosphate is a unique product. It is the clay impurities that were washed off hard rock phosphate. For over 100 years this product has been used to improve soil. Here are 7 benefits that come from using this amazing product:

1. Soft Rock Phosphate improves electromagnetism in soil. What this means is that it stays put and doesn't want to move. This property is imparted to soil as a resistance to erosion.

2. Soft Rock Phosphate holds calcium in the root zone. This is a huge benefit – especially if your soil is generally low calcium. When limestone is applied to soil it has a tendency to sink out of the topsoil and into the subsoil. When calcium is held in the topsoil the biology will digest the limestone to become part of their microbial protoplasm. When they die they release the calcium back to the soil solution as available calcium. If Soft Rock Phosphate is present it will electromagnetically bond with the calcium and hold it up in the topsoil giving biology more time to digest the limestone. No other phosphate fertilizer does this.

3. Soft Rock Phosphate is a colloidal clay. This means it will bind light sandy soil. In fact, Soft Rock Phosphate is also a soil conditioner. It will actually work like baking soda in pancakes and help fluff the soil up as it improves aeration.

4. Soft Rock Phosphate Supplies Trace Minerals. Soft Rock Phosphate contains nearly half the elements on the periodic chart. While science debates which ones are necessary don't you find it ironic that more and more elements are being recognized as either essential or beneficial? I have found that full-spectrum nutrition is always a benefit for plant health in gardens when combined with major and secondary minerals. Wouldn't this apply to your field crops as well?

5. Soft Rock Phosphate provides long term building of phosphorous. The vast majority of soils around the world are critically deficient in phosphorous. By adding Soft Rock Phosphate in larger doses, the phosphorous level in soil is

built up. Then through microbial digestion this reserve is slowly made available to plants. What you add in year 1 may show availability in year 3. The goal is to keep adding Soft Rock Phosphate until the available phosphorous is around 90kg per h/a on the International Ag Labs soil test.

At this level it is safe to remove commercial phosphate from your fertility program. Only do this with annual soil testing to verify phosphorous is well supplied. The ability to take commercial phosphorous out of a fertility program is especially valuable on turf and agriculture around lakes that are sensitive to algae bloom.

6. Soft Rock Phosphate increases exchange capacity. Because Soft Rock Phosphate is actually a clay it increases exchange capacity. This allows the soil to hold more positive charged nutrients, especially calcium but also potassium, magnesium, and trace minerals. Moist Soft Rock Phosphate can even hold the gaseous form of ammonia. One way to take advantage of this property is to use 10% Soft Rock Phosphate by volume mixed with raw ingredients to be composted. Not only does Soft Rock Phosphate add phosphorous, calcium, silicon, and trace minerals to the finished compost it also has another benefit. Through the process of composting nutrients are liberated into the soluble ionic form. If Soft Rock Phosphate is present the positive charged nutrients will attach to the clay colloids instead of leaching away with moisture.

7. Soft Rock Phosphate has much faster availability than Hard Rock Phosphate. In fact, I strongly discourage the use of Hard Rock Phosphate unless it is applied to very low pH tropical soils.

While Soft Rock is time released and available over several years, Hard Rock Phosphate takes a generation or two.



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Langfos Sagte Rotsfosfaat

Sagte Rotsfosfaat is 'n unieke produk waarvan die oorsprong klei- onsuierhede bevat wat van harde rotsfosfaat afgewas is. Vir meer as 100 jaar word hierdie produk gebruik om grond te verbeter. Hier is 7 voordele van die gebruik van hierdie uitnemende produk:

1. Sagte rotsfosfaat verbeter elektromagnetisme in grond. Dit beteken dat dit bly kleef en sal nie beweeg nie. Hierdie element word na die grond oorgedra as weerstand teen erosie.
2. Sagte rotsfosfaat bevat kalsium in die wortel area / sone. Dit hou 'n groot voordeel in, veral as die grond 'n lae kalsium vlak het. Wanneer kalksteen op grond toegedien word, het dit 'n neiging om vanuit die bo-grond na die laer liggende grond te sak. Wanneer kalsium in die bo-grond gehou word, sal die biologiese samewerking die kalksteen verteer om deel van hul mikrobiëse protoplasma te word. Wanneer dit doodgaan, stel dit die kalsium na die grondbos mengsel vry as beskikbare kalsium. Die teenwoordigheid van sagte rotsfosfaat veroorsaak elektromagnetiese verbinding met die kalsium wat dit in die bo-grond bewaar en biologies meer tyd verleen om die kalksteen te verwerk. Geen ander fosfaat kunsmis besit oor hierdie vermoëns nie.
3. Sagte rotsfosfaat is 'n kolloïdale klei. Dit beteken dat dit ligte sandgrond kan bind. Sagte rotsfosfaat is ook 'n voeding vir die grond. Dit sal dieselfde effek hê as soos die byvoeging van koeksoda in pannekoekdeeg – dit help om die grond te lug en om die lug in die grond te sirkuleer.
4. Sagte rotsfosfaat voorsien spoor minerale, en bevat byna die helfte van die elemente op die periodye kaart. Terwyl wetenskap debatteer wat nodig is, is dit nie ironies dat al hoe meer van die elemente as noodsaaklik of voordelig erken word nie? Daar is bevind dat 'n volle spektrumvoeding altyd 'n voordeel inhou vir plantgesondheid in tuine wanneer dit gekombineer word met hoof- en sekondêre minerale. Sou dit nie ook vir u veldgewasse van toepassing wees nie?
5. Sagte rotsfosfaat verskaf langtermyn produsering van fosfor. Die oorgrote meerderheid van grond regoor die wêreld het 'n kritieke tekort aan fosfor. Deur sagte rotsfosfaat by groter dosisse by te voeg, word die fosforvlak

in die grond opgebou. Deur middel van mikrobiëse vertering word hierdie reserwes stadig beskikbaar gestel aan plante. Wat in jaar 1 bygevoeg word, kan in jaar 3 beskikbaar wees. Die doel is om sagte rotsfosfate by te voeg totdat die beskikbare fosfor ongeveer 90kg per h/a op die Internasionale Ag Labs grondtoets toon.

Op hierdie vlak is dit veilig om kommersiële fosfaat uit die vrugbaarheidsprogram te verwyder. Doen dit slegs met die jaarlikse grondtoets om te verifieer dat fosfor goed voorsien word. Die vermoë om kommersiële fosfor uit 'n vrugbaarheidsprogram te neem, is veral waardevol op turf en landbou grond rondom mere wat sensitief is vir alge.

6. Sagte rotsfosfaat verhoog die uitruiingskapasiteit, omdat dit eintlik 'n klei is. Dit laat toe dat die grond meer positief gelaaië voedingstowwe, veral kalsium, maar ook kalium-, magnesium- en spoorminerale behou. Vogtige sagte rotsfosfaat kan selfs die gasvormige vorm van ammoniak behou. Een manier om voordeel te trek uit hierdie element is om 10% sagte rotsfosfaat per volume met rou bestanddele te meng vir kunsmis. Nie alleen kan sagte rotsfosfaat fosfor, kalsium, silikon en spoorminerale byvoeg vir die finale kunsmis produk nie, maar hou ook ander voordele in. Gedurende die bemestingsproses word voedingstowwe in oplosbare ioniese vorm vrygestel. Wanneer sagte rotsfosfaat teenwoordig is, sal die positiewe gelaaië voedingstowwe aan kleigolliëde geheg word in plaas daarvan dat die vog verdwyn.

7. Sagte rotsfosfaat is baie vinniger beskikbaar as harde rotsfosfaat. Die gebruik van harde rotsfosfaat word ten sterkte ontmoedig tensy dit toegepas word op baie lae pH triepiese gronde.

Terwyl sagte rots stadig vrygestel word en beskikbaar raak oor verskeie jare, neem dit harde rotsfosfate 'n generasie of twee.



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