





- + Low P_2O_5
- + High organics content
- + High heavy metals content
- + High Al/Fe/Mg content



+ Pure DCP that can be converted into various phosphate products (phosphoric acid and derivates) for different fields of application: animal feed, fertilizer, technical...

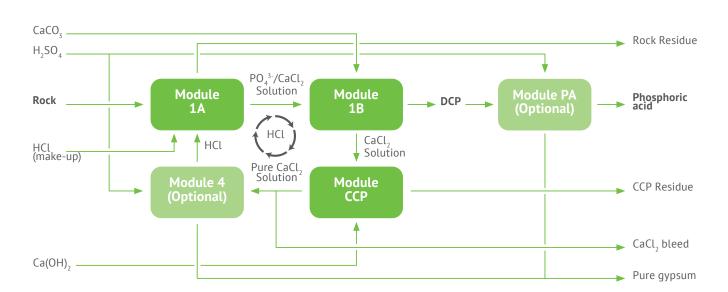


- + Modular equipment
- + Small to Large size capacity
- + High flexibility in term of raw materials (HCl, H₂SO₄) and products



- + No gypsum or pure gypsum
- + Limited waste quantity
- + Limited effluent quantity or pure effluents
- + Limited energy consumption

PHOSPHATE PRODUCTION PROCESS





GetMoreP Process



- + Low P_2O_5
- + High organics content
- + High heavy metals content
- + High Al/Fe/Mg content
- + High Fluorine



HIGH QUALITY PRODUCTS

- + High quality of the DCP product (P₂O₅ content, low impurities level)
- + Wide area of application for DCPbased products (animal feed, fertilizer, technical)

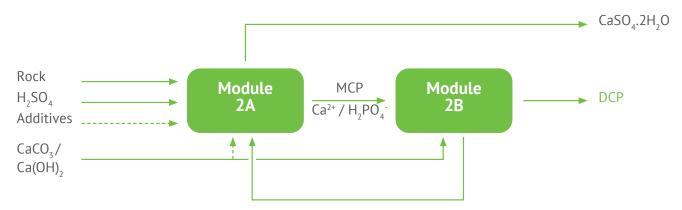


- + Flexible capacity
- + Use of H₂SO₄ waste stream
- Replace an existing rock beneficiation plant (to improve the efficiency and reduce the operation costs)



- + Where low grade rock is available
- + Where H₂SO₄ is available (especially low-cost)
- + Where gypsum quality of an existing phosphoric acid plant must be improved (heavy metals and radioactive elements removal)
- + To boost the capacity and reduce maintenance costs of an existing phosphoric acid plant with a pure DCP product

GetMoreP PROCESS



Prayon Techn@logies

Animal Feed Technology



- + Phosphates play a crucial role in many metabolic functions in animals and humans.
- + Phosphate is one of the main components found in animal bones.
- + Phosphate has a key role in the DNA stability, integrity and cell functionality in animals.



- + Dicalcium phosphate -Di-Hydrate or anhydrous (DCP)
- + Mono-dicalcium phosphate (MDCP)
- + Monocalcium phosphate (MCP)



- + Ecophos DCP process
- + MCP/MDCP processes

ADVANTAGES OF THE ECOPHOS **PROCESS:**

Quality

High biodigestibility Highest DCP purity

+ Sustainability

No or pure gypsum Reduced water & energy consumption Reduced P losses

+ Flexibility

Low sensitivity to rock quality (from low grade to high grade P rock)



PRAYON TECHNOLOGIES PROCESSES & SERVICES RANGE

PHOSPHORIC ACID PRODUCTION

- + Dihydrate Process (DH)
- + Hemihydrate Process (HH)
- + Di-Attack-Hemihydrate-Filtration Process (DA-HF)
- + Central-Prayon Process (CPP)
- + Hemihydrate Dihydrate Process (HDH)

ANIMAL FEED

- + DCP/MDCP/MCP HCl based Ecophos Process
- + MCP/MDCP from Pre-Treated Phosphoric Acid

SUSTAINABILITY

- + Secondary P-Sources
- + Spent Acids Recycling

PHOSPHORIC ACID TREATEMENT

- + Ion Exchange Demetallization
- + Desulfation (SO_z)
- + Desarseniation (As)
- + Decadmiation (Cd)
- + Defluoration (F)

TECHNOLOGIES ASSOCIATED TO PHOSPHORIC ACID PRODUCTION

- + Concentration Process
- + Gas Scrubbing Process
- + Fluorine Recovery Process

CHEMICAL BENEFICIATION

- + GetMoreP Upgraded Rock
- + Ecophos Upgraded Rock
- + Mg Leaching

SERVICES

- + Licensing
- + Lab & Pilot Tests
- + Semi Industrial Validation
- + Training
- + Site Services
- + P2Gether Plant Performance Optimization
- + Technical Surveys











