FEECO is the world's top provider of tumble growth agglomeration equipment and process solutions. We offer custom agglomeration equipment, including all of the equipment listed here, as well as process and product development services. Through our unique batch and pilot testing facility, we can help you turn your synthetic gypsum into a premium soil amendment. For more information, contact us today at FEECO.com/contact

**SYNTHETIC (FGD) GYPSUM:**

Synthetic gypsum (aka FGD gypsum or syn gyp) is gaining popularity for the many benefits it can offer. Most commonly, it is processed via pelletizing for use as a soil amendment.

**BENEFITS OF SYNTHETIC GYPSUM:**

- Reduces need for mining
  - The use of synthetic gypsum reduces the need to mine natural, finite gypsum sources
- Creates revenue from waste
  - Synthetic gypsum turns a waste product into a valuable, saleable material
- Comparable to natural gypsum
  - As a soil amendment, synthetic gypsum can provide the same benefits as natural gypsum
- Decreases burden on landfills
  - The use of synthetic gypsum turns a waste product into a usable product, avoiding landfills

**PROCESSING SYN GYP INTO A SOIL AMENDMENT**

Synthetic gypsum is processed from a powder into a rounded granule for use as a soil amendment. This mitigates dust and handling issues and improves application. Shown below is a simplified flow diagram for a typical synthetic gypsum pelletizing solution.

**STEP ONE: PRECONDITIONING**

Not all processes utilize a preconditioning step, but those that do see significant benefits. Preconditioning in a pin mixer serves to thoroughly mix the binder and material into a homogeneous mixture and prepare it for pellet formation.

**STEP TWO: PELLET GROWTH**

Seed pellets from the pin mixer are fed to the disc pelletizer. The rotation of the disc, combined with a continuous addition of binder and feedstock “grow” the pellets to the desired size via coalescence.

**STEP THREE: DRYING**

“Green” (wet) pellets are fed to the rotary dryer to reduce the moisture content. The tumbling action of the rotating dryer further rounds and polishes the pellet product, yielding a premium product.

**BENEFITS TO PRECONDITIONING:**

- Increased Production
- Easier Processing & Handling
- Improved Product Control
- Reduced Binder Consumption

**BENEFITS OF SYNTHETIC GYPSUM:**

- Reduces need for mining
- Creates revenue from waste
- Comparable to natural gypsum
- Decreases burden on landfills

**AGGLOMERATION SOLUTIONS**

FEECO offers a complete agglomeration solution, from design and equipment to process development and optimization. Our solutions are engineered for your specific requirements and are designed to integrate easily with existing processes and equipment.

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