AGGLOMERATION:

The amassing of particles into a cohesive unit (i.e., particle size enlargement)

THE BENEFITS OF

RAW MATERIAL BENEFITS:

- **RAW MATERIAL BENEFITS:**
  - **INDUSTRY EXAMPLE:** GOLD, COPPER, SILVER, NICKEL, COBALT, URANIUM, AND ZINC ORES
  - The agglomeration of ore improves the efficiency of heap leaching operations by creating a more uniform shape and size ore, allowing leachate to more effectively percolate through the heap.

PRODUCT BENEFITS:

- **PRODUCT BENEFITS:**
  - **INDUSTRY EXAMPLE:** AGRICULTURAL WASTES (MANURE, COMPOST, etc.)
  - Agricultural wastes that are agglomerated are easier to transport, store, and apply. They also offer reduced odor, customizable formulations, and storage potential.

PROCESS BENEFITS:

- **PROCESS BENEFITS:**
  - **INDUSTRY EXAMPLE:** GLASS
  - In raw form, glass powder incurs material loss in the furnace as oxides-entrained in the air flow. The fines off carefully balanced formulations, agglomerated glass reduces product loss, ensures formula remain intact, and improves overall process efficiency.

ECONOMIC BENEFITS:

- **ECONOMIC BENEFITS:**
  - **INDUSTRY EXAMPLE:** LIMESTONE
  - Previously unsalable limestone fines can be agglomerated into a marketable product - limestone soil amendment pellets.

ENVIRONMENTAL BENEFITS:

- **ENVIRONMENTAL BENEFITS:**
  - **INDUSTRY EXAMPLE:** WASTE PAPER SLUDGE
  - Waste paper sludge is often landfilled. When agglomerated, it can be transformed into a usable product, such as a mulch for use in lawn products.

AGGLOMERATION SOLUTIONS

At FEECO, we develop and provide tumble growth agglomeration equipment and processes. Our equipment and processes can be used to agglomerate particles ranging in size from 10-3000 microns, as well as process and product development services, that suit a wide range of applications, objectives, and material types. For more information, contact a FEECO expert today - the innovation leader for agglomeration systems.

FEECO.com/agglomeration

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. Not sure which type of agglomeration is right for your material? Find out in our feasibility testing lab - The Innovation Center.

For more information, contact a FEECO expert today at FEECO.com/contact