

## **78-740 Elementary Sieve Set**

**Introduction:** Soil, or regolith if one wants to be technical, is usually not homogenous. Instead, it is commonly composed of many different size particles. These range from flakes of clay and sand to boulders. Usually, soil doesn't have pieces larger than gravel in it.

There are many instances where separating soil by particle size is desirable. It is often the first step towards identifying and classifying soil. It can be useful to determine what kinds of plants and animals can live in it; different organisms prefer different materials. For example, earthworms prefer loam, crabs prefer sand, and some lizards prefer bare rock.

Another reason to separate by particle size is if one is looking for something in particular. A scientist may be searching for fossilized mollusks, or perhaps seeds of a known size are required for study. What ever the reason, a common way to separate soil is with a sieve set.

**Operation:** Your sifter set contains 4 trays and a catch pan. The trays are molded from a single piece of plastic, making them exceptionally durable. Each has a different size grid to allow the passage of different size materials. The sifters are best used when the largest sieve is on the top, and the others arranged in descending order.

Your sifter set is eminently capable of handling soils. However, it can also handle any granular items. **Note: you must wear safety glasses when using this unit, due to the dust produced.**

To use your sifter set, pour an unsorted mixture into the first pan. As soon as you start to pour, some of the sample will permeate down into other layers. When you have poured the whole sample, shake the stack to make sure the sample has worked down as far as it can go. You can now remove each pan, and see what has been caught.

### **Warranty and Parts:**

We replace all defective or missing parts free of charge. Additional replacement parts may be ordered toll-free. We accept MasterCard, Visa, checks and School P.O.s. All products warranted to be free from defect for 90 days. Does not apply to accident, misuse or normal wear and tear. Intended for children 13 years of age and up. This item is not a toy. It may contain small parts that can be choking hazards. Adult supervision is required.

