



PRODUCT BULLETIN

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Laboratory Leach Column For Leach Testing of Ores

Constructed of PVC and Stainless Steel

Laboratory leach testing procedures include the studies of dissolving metal ions, with an acid, base or cyanide. The leach column simulates the effects of heap leaching of an ore, in a controlled, lab environment, making data collection quick and easy. In order to eliminate any wall effect in the lab six inch diameter leach column, most ore should be sized 1/2" or less. The 6" diameter leach column is constructed of PVC, and the 10 gallon reservoir is constructed of stainless steel. A 10 mesh stainless steel screen covers the drain plate, to prevent fine grained material from plugging the recirculation pump. The drainage plate also serves to support the column of rocks. A peristaltic pump with PVC tubing is used to recirculate the leachant.

Samples may be easily collected of the leach solution, to monitor temperature, concentration, density, extraction of precious metals, as well as undesirable elements.

The ores placed into the column should be screened prior to inserting, to determine particle size distribution, for later use comparing recovery to particle size. The time required to obtain maximum practical recovery is also an important element to monitor, for use in determining leach rates. Any additives, such as lime to maintain higher pH, should also be noted. And finally, the consumption of the leachant should be recorded for each test, to determine projected leach consumption rates.

Our Laboratory Column Leach System makes conducting lab leach test easy, efficient, and effortless. (Well, practically effortless)

