

Home Made - Lightweight Backpack Stove

Parts List

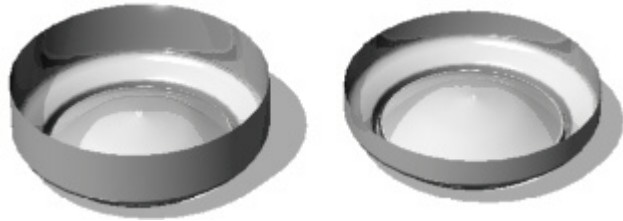
- 2 Aluminum Soda Cans - Free
- 1/4 cup of Perlite (found in the gardening department) - \$1.75 bag US
- Heavy Aluminum Foil for wind shield.
- Aluminum heating ducting for pot support.
- De-Natured alcohol (found in the paint dept. or boating supply) \$3-4 Qt.

Tools

- Scissors
- Drill
- .024 drill bit
- Wire Cutters

Step 1

For the base, neatly cut one can about 1 1/2" (3.5cm) from the bottom. For the top, cut the other can about 1" (3.5cm) from the bottom.

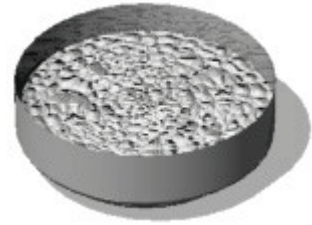


Step 2

Drill a number of holes (18-30) around the edge of the top and in the center as shown; use a 0.024 drill bit. A extremely small sewing needle will also work.

Step 3

Fill the base with Perlite, just more than half full.



Step 4

Make 6-8 vertical cuts around the top. Make the cuts up to the but not over the rounded edge. Slowly press the top into the bottom. (A small board can help make it even.)



Step 5

Fill the stove about half full of alcohol. Light the burner by slowly moving a match or lighter over the edge of the burner. **Note:** If it does not stay lit, tip the burner up to leak some fuel into the rim and relight. Hold it until it stays lit or gets too hot.

Step 6

Punch $\frac{1}{4}$ " holes in the bottom of the duct and cut at 4 inches high to use as a pot support. Use the heavy foil to shield the flames from the wind.