

INSTRUCTIONS FOR GEMSTONE FINISHING USING RAYTECH'S GS KITS

Raytech tumblers are useful for smoothing and polishing a wide variety of gemstones. They are particularly useful for finishing sawed or ground to shape preforms where the surface of the stone must be smoothed and polished without destroying the basic shape. The capacity of the tumblers in gem rock is as follows: TV-5, .05 cubic feet or about 4lbs; TV-IO, .1 cubic feet or about 8 lbs; AV-25, .2 cubic feet or about 16lbs. The tumbler bowl must be filled close to capacity for the tumbling action to be effective. If too much volume of stones is lost in the rough grinding step, it is better to take two batches of rough ground rock and choose only the best of those to continue with the subsequent steps. The stones will finish best if there is a mixture of sizes included. A considerable portion of small pieces of stone are very helpful in finishing the hollow areas. For hard stones such as agates or jaspers, 1/4 cup in TV-5, 1/2 cup in TV-IO or 1 cup in AV-25 of Raytech Ceram Bits used in steps 2, 3, & 4 will provide excellent finishes in the hollow areas.

Stones of mixed hardness usually do not finish well if combined in the same batch. In most cases it is best to finish only one type of material at a time.

It is important that contamination from one step to the next be avoided if good results are to be obtained. The stones should be washed and scrubbed thoroughly between steps. A second bowl is recommended for best results. Otherwise, residual grit may embed in the bowl and can prevent attainment of a good polish.

DRY POLISHING

Soft stones such as malachite, dolomite, rhodochrosite, etc., polish best with the dry gem polish which must be activated as follows: Place dry media in the tumbler and spread 1/2 oz. polishing cream onto the media. While the mass is vibrating, break up the lumps of activator by hand until mixture is moist. Recharge after 50-100 hours of use.

COMPONENTS IN STONE FINISHING KIT GSH-1 & GSU-1

*35-041	S.C. Grain Iolox 50 (1 lb.)
*35-059	S.C. Grain 100/120 (29 oz.)
*35-062	S.C. 700F (8 oz.)
35-063	Raybrite TL (8 oz.)
35-065	Dry-Polish (21 oz.)
*35-066	Activator (Polish Cream) (1 oz.)
35-067	Glossine (6 oz.)
41-110	Cerambits (4 lbs.) (Kit contains 1 lb. sample-reorder at 4 lbs.)

* All asterisk items are included in the GSH-2 Kit.

All items listed are included in the GSU-1 Kit.