Buff & Polish Chart

INTRODUCTION

- 1. Many stones polish equally well with several buff and polishing compound combinations. A very hard gem can be polished by a much softer polish powder. Only one polishing agent should be used on a buff.
- 2. Polishing does not remove any material from the surface. If scratches develop, the stone must be re-sanded.
- 3. It is impossible to obtain a high glossy finish on very soft materials, especially if they tend to be slightly porous, fibrous, or granular. As a last resort with this type of material, a finish gloss can be given by the use of spray varnish.

	Buff					Polishing Compound				
Material	Canvas	Phenolic	Felt	Leather	Muslin	Cerium Oxide			Linde 'A'	Tin Oxide
Agate		C	Α	В		A-B		С		
Amethyst		C	Α	В		A-B		С		
Beryl		D	Α	B-C		А	С	D	В	
Calcite				В	Α					A-B
Chloastrolite			Α			Α				
Feldspar			Α			Α				
Garnet		C	A-B			В	Α	С		
Glass			Α			Α				
Goldstone			Α			Α				
Hematite	В				Α	А			В	
Howlite			Α	В					В	A
Jadeite				A-B	С		В		Α	С
Jasper			Α	В		А			В	
Lapis Lazuli				A-B			В		Α	
Malachite				A-B			В		Α	
Nephrite-Jade				A-B	С		В		Α	С
Obsidian			Α			Α				
Opal-Australian			Α		В	Α				В
Opal-Mexican		Α						Α		
Psilomelane				A-B					Α	В
Petosky Stone	Α									Α
Quartz		С	Α	В		A-B		С		
Rhodochrosite				A-B					Α	В
Rhodonite				A-B		В			Α	
Serpentine				A-B					Α	В
Sodalite			Α			Α				
Thomsonite	Ì	Î	А		1	А				
Tigers Eye				А					Α	
Tourmaline	С			A-B			В	С	Α	
Turquoise				A-B					Α	В
Unakite			А			А				
Variscite			B-C	А		В			Α	С
Wonderstone	İ	Ì	B-C	А	Ì				Α	С
Match letters across rows for best combinations										

BUFFS

Canvas: Canvas is useful when polishing heatsensitive stones because it develops very little friction. **Muslin:** Muslin buffs are recommended for soft stones and gems that are heat-sensitive.

Leather: Leather is a versatile buffing material that is both efficient and economical. Leather generates heat, but not as much as felt.

Felt: Felt is useful for polishing glass and stones of even texture. It is not recommended for gemstones that under cut. Friction on felt generates heat rapidly. **Phenolic:** Phenolic tools or phenolic lap disc (cab laps) are useful when impregnated with diamond grit.14,000 Micron (pre-polish) or 50,000 Micron (polish) diamond compound can be applied to the surface of the gemstone and worked with a phenolic carving tool. It can also be applied to the surface of a phenolic lap disc and worked with the gemstone mounted at the end of a dop stick. The diamond will charge the phenolic plate making smoothing and polishing easier.

POLISHING COMPOUNDS

Cerium Oxide: Covington cerium oxide will polish at a faster rate than conventional polishing compounds and produce a superior optical lens surface with no staining or caking. Because it will polish faster, a lower concentration can be used. It is recommended for use on leather, felt, polyurethane foams, and thermoplastic polishing pads. It is a favored polish for quartz type minerals and other gemstone types. It is not recommended for gemstones that will under cut. **Linde "A":** A .3 micron aluminum powder that is carefully graded for uniformity of grain size. It is excellent for polishing stones that will under cut. Excellent for hard to polish stones.

Chromium Oxide: Chromium oxide is a hard polishing agent. It is green in color and stains badly. It is useful for polishing jade and stones that will under cut.

Tin Oxide: Tin oxide is an excellent general-purpose polish. It is used to provide a final high gloss finish. **Diamond:** Diamond grit is the most efficient polishing medium. It is especially useful for polishing difficultto-polish stones.