



Surface Preparation Division

## POLISHING PADS FOR SAMPLE PREPARATION and OTHER UNIQUE APPLICATIONS



Many companies have the need to prepare samples of the various materials or metal products they manufacture. (TEM) - Analysis of a material's bulk microstructure will show if the material has been processed correctly. It is a critical step for determining product reliability. After samples have been cut, ground or lapped they will need to be polished. Spartan Polishing Pads can be employed to remove the necessary bulk material while maintaining excellent flatness. A softer polishing pad can be used to improve the surface quality prior to examination.

Another example of a special polishing need is when a primary component needs to be taken from an "as-lapped" surface to a polished surface. Aluminum disk polishing, valve seals, spacers and other specialty parts require precision surfaces. Careful selection of Spartan Polishing Pads in conjunction with the proper abrasive and suspension agent will provide a highly polished surface. Selected pads can also be used for single-step polishing of semiconductor and compound semiconductor materials if the appropriate polishing slurry base and pH is chosen for the application.

### SparLon-1 & Spar-Lon-2 Polishing Pads

**Description** A "one-step", dense non-woven pad that can be used with diamond slurries up to 25 microns  
**Hardness** 92-94 Shore A  
**Density** 0.62 g/cm<sup>3</sup>-0.70 g/cm<sup>3</sup>  
**Thickness** 0.69mm

### Silk-Met-1 Polishing Pads

**Description** Woven artificial silk pad for metallographic polishing using diamond slurries under 10 microns. Can be used with water or oil based slurries.

### Acry-Met-1 Polishing Pads

**Description** Buffed polyurethane pad for polishing plastics or metals with aluminum oxide. A "middle step" polishing pad.

**Hardness** 67 Shore A

**Thickness** 1.2mm

### Blue Dia-Met-1 Polishing Pads

**Description** A "final polishing pad" (flocked) to be used with diamond slurries or pastes 3 microns or under.

**Hardness** 40 Shore A

**Thickness** 1mm

**Fiber Height** 0.75mm

These pads are available with different pressure sensitive adhesive backing (PSA). Spartan Polishing Pads are a cost effective choice for precision 1st step, final or single-step polishing. Attention to customer service needs and quality control procedures are a priority with us. Please call us today with your specific sample preparation or unique polishing requirements and we would be pleased to suggest a pad and process that will accommodate your technical need. These pads may be used as alternatives to Buehler, Struers, Allied High Tech, etc. on a wide range of commercially available table-top machines. Our quality is excellent and they are cost competitive to traditional offerings.

Spartan Felt Company • 151 Felt Drive • Roebuck, SC 29376

TEL (864) 576-7919 • FAX (864) 574-4507 • [www.spartanfelt.com/polishingpads](http://www.spartanfelt.com/polishingpads) • email: [info@spartanfelt.com](mailto:info@spartanfelt.com)