



AMS[®] Polishing Material

Creatively engineered to conquer your surface preparation and polishing challenges.

Surface Preparation Division



Advanced Materials Preparation Polishing Pads

Many of the emerging technologies use sapphire, silicon carbide and ceramic wafers to have a very flat surface and high degree of surface finish with low defect densities. The polishing of these materials requires use of different pads and slurries and the modification of the basic variable parameters that are applied to the polishing machine. Spartan Polishing Pad Division has a developing line of pads that address the critical needs of these hard materials.

Polishing Pad Detailed Information

All pads are available with our own specially developed PSA, magnetic or loop backing to be used with various hook attachments. We currently have 2 types of PSA that cover 2 specific markets. Our standard is for the glass industry is one that resists temps up to 120F, peels easily from the plate and can actually be reapplied. Our second type of PSA is a 3M product that is temperature resistant up to 160F, resistant of pH changes from 5 to 10, but may leave some adhesive on the plate (depending on how it is run and removed).

AMS Polishing Material Characteristics

White fiber based resin treated polyurethane pad for diverse polishing applications and surfaces. The fiber material makes excellent interconnecting cellular structures, which make the pad highly durable and dimensionally stable. This material is designed for rapid stock removal and superb surface finishes.

For Use With

sapphire, silicon carbide, ceramic and other advanced materials

Durometer

Shore C scale 60

Compression

4 - 6% (1/2 pound force displacement)

Density

.42 g/cm³

Thickness

.050", .090" and .125" (1.27, 2.286 and 3.175 mm)

Diameter

Up to 53" sheets and pads

Surface Preparation

Plain, perforated or embossed

Backings

Easy to apply/remove PSA is standard. High temperature PSA and magnetic backing are available upon request.

Impregnations

Abrasive impregnates in limited styles

Can Replace

Suba X and Suba 500