

# Technical Information Guide: Premium Polishing Cloths & Pads

## POLISHING CLOTH SELECTION GUIDE

Cloth	Recommended Micron ( $\mu\text{m}$ ) Size	Abrasive Type	Cloth Characteristics	Usage Guide	Applications
UltraPad	6 $\mu\text{m}$ & Up	Diamond	Hard woven, no nap with high material removal	Used to replace multiple SiC grinding steps	Ferrous materials and thermal spray coatings
UltraPol*	6 $\mu\text{m}$ & Up	Diamond	Hard woven, nonaggressive silk cloth	Excellent surface finished used to retain flatness in medium to hard specimens	Minerals, coals, ceramics, inclusion, retention in steels, and refractory metals
Nylon*	6 $\mu\text{m}$ & Up	Diamond	Oil resistant, medium hard woven, no nap	Used to retain flatness and hard phases	Ferrous materials, sintered carbides and cast irons
TexMet P	6 $\mu\text{m}$ & Up	Diamond	Hardest perforated woven cloth for high material removal	Used for material removal and flatness of hard specimens	Ceramics, carbides, petrographic, hard metals, glass, and metal matrix composites
TexMet C	15-0.02 $\mu\text{m}$	Diamond Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub>	Non-woven pressed cloth used for durability	Used for harder specimens and increased flatness	Ferrous and nonferrous metals, ceramics, electronic packages, PCB's, thermal spray coatings, cast irons, cermets, minerals, composites, plastics
TriDent*	15-0.02 $\mu\text{m}$	Diamond Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub>	Soft durable, woven synthetic, no nap	Used to maximize flatness and retain phases while providing excellent surface finish	Ferrous and nonferrous metals, microelectronics, coatings
VerduTex*	9-1 $\mu\text{m}$	Diamond	Durable, medium hard synthetic silk cloth	Used for rough and final polishing	Ferrous and nonferrous metals, microelectronics, coatings
VelTex	9-1 $\mu\text{m}$	Diamond	Shot-napped, synthetic velvet cloth	Ideal for final polishing	Steel, nonferrous and soft metals
WhiteFelt	6-0.02 $\mu\text{m}$	Diamond Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub>	Soft and durable matted wool cloth	General usage for intermediate to fine steps	Ferrous and nonferrous metals
PoliCloth	6-1 $\mu\text{m}$	Diamond	Medium hard, woven wool cloth	General usage for intermediate steps	Cast iron, copper and aluminum alloys, coal and other soft metals
MicroCloth	5-0.02 $\mu\text{m}$	Diamond Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub>	Soft, versatile, long napped synthetic rayon cloth	Most popular, general usage final polishing cloth	Ferrous and nonferrous metals, ceramics, composites, PCBs, cast irons, cermets, plastics, electronics
MicroFloc	0.06 $\mu\text{m}$ -0.02 $\mu\text{m}$	Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub>	Soft, long napped cloth	General usage for final polishing	Ferrous and nonferrous materials
MasterTex	1-0.05 $\mu\text{m}$	Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub>	Soft synthetic velvet with low nap	Softer final polishing cloth	Soft nonferrous and microelectronic packages
ChemoMet	1-0.02 $\mu\text{m}$	Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub>	Soft, porous, chemically resistant, synthetic cloth	General usage pad that removes smear metal from tough materials during chemomechanical polishing	Titanium, stainless steel, lead/tin, solders, electronic packages, soft nonferrous metals, plastics

\* Interchangeable in many of the following methods