

The following table summarizes key lapping film products supplied by Nanolap Technologies, LLC; additional products are available, including cloth-backed abrasives, slurries, and other specialty applications.

Product code	Mineral	Backing	Grades (microns)	Description	Applications	Data sheet
66P	Diamond	3-mil (nominal) polyester film	0.1, 0.5, 1, 3, 6, 9, 12, 15, 30	66P Diamond Lapping Films are designed to provide consistent high-quality surface finishes in lapping applications for hard surfaces. This product series is particularly suitable for metallography sample preparation, but also finds use in lapping and superfinishing of other hard materials including ceramics, semiconductors, glass, metals, and stone. To ensure high quality and reliable performance, 66P Lapping Films are made by precision-coating tightly graded diamond particles onto a 3-mil polyester substrate.	Superfinishing, precision lapping, and fining of hard materials, including hard metal alloys, ceramics, glass, semiconductors, stone, other hard materials.	
66HPX	Diamond	3-mil (nominal) polyester film	0.5, 1, 3, 6, 9, 12, 15, 30	Designed for fiber optic connector epoxy removal, refining, and polishing. This product is manufactured with a high concentration of diamond and a thick coating for high performance and durability. Available in discs, sheets, and rolls in grades of 0.5, 1, 3, 6, and 9 micron, with or without PSA backing.	Fiber optic connector polishing; lapping and polishing of hard materials.	
66XL	Diamond	3-mil (nominal) polyester film	1, 3, 6, 9	Nanolap® 66XL diamond lapping films are produced by a precision coating of diamond particles on a polyester film. The 66XL series provides outstanding life and finish for fiber optic connectors.	Fiber optic connector polishing; lapping and polishing of hard materials.	
66HPL	Diamond	3-mil (nominal) polyester film	30, 45, 60	Nanolap® 66HPL diamond lapping films are used in aggressive polishing applications on hard materials, such as polishing of ceramic-coated or hard alloy rolls, ceramic parts, or other hard surfaces.	Superfinishing, precision lapping, and fining of hard materials, including hard metal alloys, ceramics, glass, semiconductors, stone, other hard materials.	
26M	Aluminum Oxide	3-mil (nominal) polyester film	1, 3, 5, 9, 12, 15, 30, 40, 60	High-quality lapping films using precision-graded aluminum oxide particles coated on a polyester film. Provide precision finishes in diverse applications including polishing of industrial rolls (coating, calendering, etc.), micromotor shafts, CD/DVD stampers, and other applications requiring controlled surface finishes on metals, alloys, and ceramics.	Roll polishing, micromotor shaft polishing, CD/DVD stamper; precision finishing of metals and alloys.	
26B	Aluminum Oxide	3-mil (nominal) polyester film	12	Precision-graded aluminum oxide lapping films designed for long life and heavy usage; provide similar finishes to 26M lapping films with the addition of a more aggressive cut and longer durability. Recommended for more demanding lapping applications.	Precision finishing of metals and alloys; finishing applications requiring extended life and durability over standard aluminum oxide lapping films.	
26O	Aluminum Oxide	3-mil (nominal) polyester film	9, 12	Nanolap® 26O ophthalmic fining pads are produced by a precision coating of aluminum oxide particles on a polyester film. The 26O series provides outstanding performance in second fining operations for ophthalmic applications.	Ophthalmic lens manufacturing	
26Q	Aluminum Oxide	3-mil (nominal) polyester film	n/a	Nanolap® 26Q ophthalmic fining pads are produced by a precision coating of aluminum oxide particles on a polyester film. 26Q fining pads provide outstanding performance in second fining operations for ophthalmic applications.	Ophthalmic lens manufacturing	
46P	Silicon carbide	3-mil (nominal) polyester film	1, 3, 5, 9, 15, 30	Tightly-graded silicon carbide particles uniformly coated onto a polyester film backing. Wide use in a number of applications.	Metallography, fiber optic connector polishing, roll polishing, and electronics.	
86 series	Silicon dioxide	3-mil (nominal) polyester film	86P 86XL	Nanolap® 86-series Final Polishing Films are produced by a precision coating of silicon dioxide on a polyester film. These products are used for the final step of polishing fiber optic connectors and will help you achieve a consistently superior surface finish.	Final step in fiber optic connector polishing.	
56M	Cerium oxide	3-mil (nominal) polyester film	0.5	56M Cerium oxide lapping film is used for precision cleaning and polishing of components containing glass or quartz. It is also useful for generating a fine polish on other substrates such as metals, ceramics, and plastics.	Optical components, fiber optic connectors, glass polishing.	
NL series	Aluminum Oxide	1-mil (nominal) polyester film	NL-20000, NL-15000, NL-8000	Nanolap NL-series are high-precision tapes designed primarily for LCD color filter repair. A precision coating containing aluminum oxide particles is applied on a 1-mil (nominal) film, resulting in a stable, controlled caliper. Available micron grades: 1, 0.5, and 0.3.	LCD color filter repair	