

DATA SHEET

Lapping: Abrasive Machining Process

Accumet has developed several unique cutting, lapping, and polishing techniques to achieve extremely tight tolerances with repeatability and consistency from piece to piece.

Lapping is a process utilized to control the surface finish, thickness identity, parallelism as well as flatness of substrates. The process is different depending upon the type of material and the physical dimensions required.

Thickness tolerances as tight as .00002" and surface finishes ranging from five µin to 60 µin. Flatness is the other crucial benefit from lapping. Flatness is the other crucial benefit from lapping. Accumet is capable of delivering substrates in R&D quantities as well as production quantities. Consistency and repeatability are what we've built our reputation on.

Specifications	
Material:	Virtually any type
Finish:	Depending upon material, controlled finishes from 8 µin to 60 µin
Thickness:	Min. 0.003" up to almost any desired thickness. Tolerance on thickness held as close as ± 0.00002"
Diameter	16" OD
Length & Width:	14" x 14"
Flatness:	Dependent upon material thickness, can be held to as tight as to within 0.00002"
Parallelism:	Can be held within 0.00002"

Accumet offers a complete ultra-precision service for grinding, lapping polishing, diamond sawing, laser machining, sizing a wide variety of metals (ferrous and non-ferrous), carbide, ceramic, sapphire and other materials for industrial and scientific applications, including telecommunications, semiconductors, communications, test & measurement, microelectronics, defense and security industries.

These parts can be made to specifications or blanks can be machined to any final size and surface finish. Our unique machining enables us to process rings, seals, and many other shapes to fine surface finishes and tolerances.

Have questions? Please reach out to sales@accumet.com or call **978-692-6180** and we will be happy to assist you.