

Now available from Ted Pella, Inc.



CHARACTERISTICS:

1. DiATOME® offers incomparable durability of the diamond edge. DiATOME® knives have been known to last for many years without resharpening.
2. All DiATOME® diamonds are of the highest possible quality with a regular crystal structure. The crystal orientation of the diamond permits a final polishing parallel to the cutting edge, which gives you a perfect nick-free edge.
3. Uniform sections are easily reproducible.
4. DiATOME® knives are guaranteed for an unlimited amount of resharpenings.
5. When DiATOME® resharpens their diamond knives, they are restored to their original condition. Your resharpened DiATOME® diamond knife will have the same length, the identical cutting edge and carry the same guarantee of quality as the day it first left the factory.
6. DiATOME® diamonds are fastened into a metal shank, which is securely screwed into the boat and then sealed. The sealing material is hydrophilic, allowing for easy wetting of the cutting edge, and has no effect on the stability of the knife.
7. DiATOME® cryo knives incorporate a special epoxy resin for sealing which is chemical and temperature resistant.
8. Before delivery, each knife, whether new or resharpened, is subjected to extensive testing for its ability to cut accurately without scoring or compression. Only if the performance meets or exceeds the rigorous testing standard established by DiATOME® will it be shipped to you.
9. The DiATOME® boat is designed in such a manner that the water surface is horizontal when the clearance angle is set. This results in stationery water surface and good reflection.
10. DiATOME® universal knife boats are designed to fit all brands of ultramicrotomes without the need for an adapter.
11. The shape of the DiATOME® boat offers you the advantage of easy pick up of the floating sections.
12. For well over 35 years, DiATOME® has been the innovator in the manufacture of diamond knives covering the entire microtomy spectrum.
13. DiATOME® offers special testing services without charge. If you are having problems sectioning a particular specimen or you are not sure which knife will perform the best in your specific application, just submit a sample block to us to send to the DiATOME® testing division. Following the necessary testing by DiATOME®, we will then make our recommendations for your application.

JUSTIFICATION:

DiATOME® knives are the only knives that can cut all types of materials from biological specimens to materials science items. DiATOME® diamond knives are the only diamond knives consistently mentioned in professional journals and books and are the only knives that are proven to work consistently for any type of sectioning specifications.

Much research shows the DiATOME® knife is the only knife that can be relied on. Research shows the DiATOME is the only knife that successfully cuts all types of materials consistently. Testing of other knives has proved them inferior.

The specific characteristics and properties of DiATOME® diamond knives that support the above claims are as follows:

DiATOME® is the only manufacturer to use a 2-point diamond edge with a radius of curvature less than 2nm. This specification allows the DiATOME® knife to be far superior to any of the other manufacturers and affords the knife a much longer life than any other knife on the market.

However, the main reason to buy a DiATOME® diamond knife is that, in the long run, it is less expensive because it lasts longer. Once a DiATOME® knife is purchased, it is good for a lifetime with resharpening every 2-3 years. All other manufacturer's knives must be resharpened more frequently. Within a very short time, the DiATOME® knife becomes half the price of all others on the market. On top of this, it does a far superior job in your research.