

Diamond Lapping Paste, Slurries and Compound

DINAMIC® offers Diamond Compound, Diamond Slurries and Lapping Paste manufactured in North America to the most exacting standards. Specific grades of Micronized Virgin Diamond have been tested and chosen for their exceptional quality, durability and performance under all polishing and lapping conditions.

Particle Analysis

Each batch of micronized Diamond is tested and certified with a Grade Quality Certification using a proprietary Particle Analysis System that combines statistical and video analysis for exact evaluation. Test results by Lot Number are available on request to support your quality control measures such as ISO documentation requirements.

Available Compounds

Diamond compounds are available in three different carrying medias for varying applications:

M-based compounds (Oil Soluble) offer a wide thermal processing range of up to 400F° that allows this M-based compound to be used under the most demanding applications.

Applications and suggested uses are for 'M' base compound are for precision finishing of all types of dies and molds and polishing optical, ceramic and electronic components.

U-based compounds (Oil Soluble) are less viscous than 'M' based compound. This compound offers better flow-ability and is better suited for lapping and high speed applications.

Applications and suggested uses for 'U' base compound are for precision finishing of all types of dies and molds and polishing optical, ceramic and electronic components.

W-based compounds (Oil Soluble) offer specific characteristics ideally suited for the preparation of tools and dies that will be subsequently electroplated or chemically or physically coated. No thinner or solvents are required with 'W' based compound. There is no impregnation by the compound in the substrate prior to coating.

Applications and suggested uses are the polishing of tools and dies prior to CVD and PVD coatings. This compound is also suited when environmental issues are important.

Concentrations

Compounds, Paste and Slurries are available in extra light, light, medium, heavy, extra heavy and super heavy concentrations. The concentrations by carat weight are the highest available on the market. Specific carat weight concentrations are available by special order.

Special Concentrations and Medias

Specially formulated concentrations are available for your special requirements in U, M or W base.

Applications:

- a. Specially formulated concentrations used in production lapping machines used to radius carbide inserts.
- b. Specially formulated concentrations used in edge preparation where very small radii are required with limited stock removal.
- c. Specially formulated concentrations used to ring gears for final fit prior to assembly in transmissions.
- d. Specially formulated Water Based Media where environmental concerns prevent the use of oil based products.

Thinners

Compound thinner specifically designed and manufactured for thinning 'M' and 'U' based compounds is available. The thinner is non-toxic and non-hazardous and offers an excellent method to spread the diamond media evenly while keeping it moist and offering efficient clean up. This thinner works well with other manufacturers' media.

Packaging

Compound and Lapping Paste is available in standard 5 gram and 18 gram tubes or jars. Larger containers and dispensers are available upon request, such as 454-gram tubs (1 pound).

Thinner is available in 200cc, 500cc or 4 liter bottles.

Slurries are available in 500 gram, 1000 gram and 5000 gram containers.

DIANAMIC Diamond Compound and Lapping Paste

Standard Grade Micron Sizes available in

M, U or W bases

DIANAMIC DIAMOND PASTE AND COMPOUND		AVAILABLE IN JAR, SYRINGE OR TUB
GRADE	MICRON SIZE	COLOR
100	100-150 MICRON	BLACK
170	80-100 MICRON	GRAY-BLACK
230	54-80 MICRON	PURPLE
45	36-54 MICRON	BROWN
30	22-36 MICRON	RED
15	12-22 MICRON	BLUE
9	6-12 MICRON	GREEN
6	4-8 MICRON	ORANGE
4	2-6 MICRON	PINK
3	2-4 MICRON	YELLOW
2	1-3 MICRON	LAVENDER
1	0-2 MICRON	IVORY
.5	0-1 MICRON	LIGHT GRAY
0 - .5	0-.5 MICRON	GRAY
0 - .1	0-.2 MICRON	WHITE