

Plasma Treated GP Lenses

Q. What is plasma treatment?

Plasma treatment modifies the top layer of surface molecules to remove residual organic contaminants and generate a hydrophilic surface to enhance wetting performance of GP lenses. The type of plasma treatment performed on contact lenses is the low temperature version (cold-gas-plasma) using ionized gases in a vacuum chamber.

Q. What are the benefits of plasma treating GP Lenses?

The plasma treatment of GP lenses is a very effective cleaning method that eliminates residual contaminants from the lens surface. It also prepares the surface properties inherent in the lens material for enhanced wettability prior to handling.

Q. What GP lens materials can be plasma treated?

Per FDA approval, plasma treatment on the following materials is *optional*: Acuity 18, 58, 100, Boston® X02, Boston® X0, Boston E0®, Boston ES®, Boston® II & IV, Boston® Equalens® & Equalens® II, Optimum Classic, Optimum Comfort, Optimum Extra, Optimum Extreme, Hexa100, Paragon HDS®, Paragon HDS® 100, Paragon Thin, FluoroPerm® 30, 60, 92, 151. Menicon Z material *requires* plasma treatment.

Q. Will patients notice any difference in lenses that have been plasma treated?

Plasma treated GP lenses have shown a reduction in the wetting angle measurements. This wetting angle reduction may provide enhanced on-eye wettability and potentially increased comfort for wearers.

Q. Do plasma treated lenses require special care and handling?

Plasma treated lenses will be wet-shipped (non-sterile) from our facility in Boston SIMPLUS® Multi-Action Solution.

IMPORTANT: GP lenses that have been plasma treated should not be cleaned with any GP cleaner containing abrasives such as Boston Advance® or Original Formula Boston Cleaners. The abrasive action will remove the plasma treatment.

Q. Does Boston Laboratory Lens Cleaner have abrasives?

No. While Boston Laboratory Lens Cleaner is non-abrasive, it should only be used in the office and practitioners should avoid repeated use of Boston Laboratory Lens Cleaner cleaner for all GP lenses due to the ability of the alcohol to soften the material with repeated exposure.

Q. Since plasma is an “effective cleaning method,” do lenses need to be cleaned when they arrive in the practitioner’s office?

Yes. When you receive plasma treated lenses from us, they are not sterile, and therefore, cleaning and sterilization are required prior to patient dispensing.

Q. Are peroxide-based cleaners OK to use on plasma treated lenses?

Yes. However, because the lenses are so clean after the plasma treatment process, peroxide-based cleaners shouldn't be needed initially. Peroxide-based cleaners were not specifically tested, which is why the recommended solutions are advised.

Q. Will GP lenses still wet even if the plasma treatment is removed?

Yes. Because the materials listed above are inherently wettable, removal of the plasma treatment will not negatively affect the wettability of the original material.

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contact lens, inc.

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