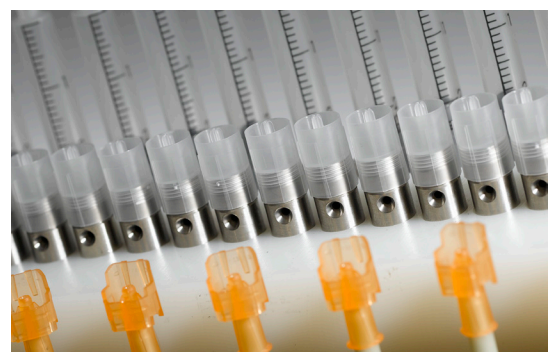
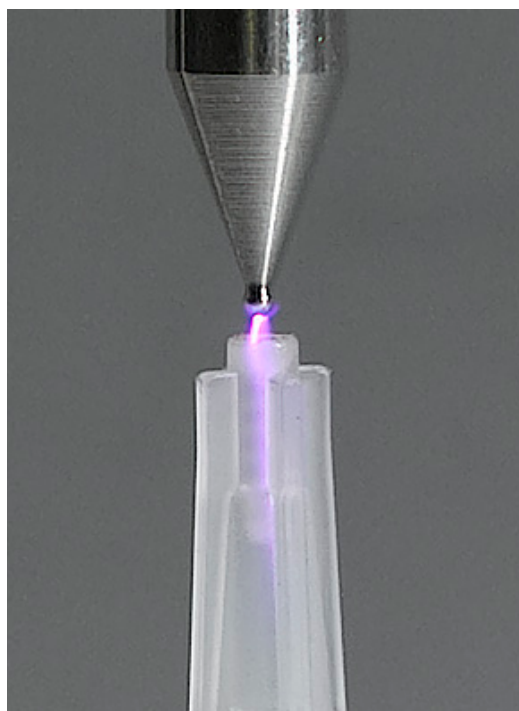


NeedleTEC

Corona Treatment of Needle Hubs



Corona surface treatment can be the solution to the bonding and leakage problems of needle hubs. The purpose of surface treatment is to increase surface wettability and adhesion through electrical discharge. In practice corona pre-treatment has become one of the most common processes used for surface refinement. This method increases the surface energy of plastics and improves wettability and adhesion. The final effect achieved by the treatment depends on various parameters, including electrode efficiency, duration of the corona discharge, type of material being treated, temperature and moisture, any contamination, surface stability and similar factors.

Ten years ago Tantec developed a customised corona station for the treatment of needle hubs. We have advanced our surface treating technology with our NeedleTEC - a corona treating system for needle hubs. NeedleTEC's ability to treat difficult to reach recesses makes this simple to use system a safe

treatment solution for needle hubs. The benefit of improved wettability is that the adhesive will spread evenly on the hub that connects to a stainless-steel cannula and thereby prevents fluids from leaking. Accordingly, the benefit of the strong bonding between adhesive and hub will ensure that the cannula will not move or release from the hub during use.

NeedleTEC is a compact, self-contained table-top Corona Treating System that includes an integrated generator, transformer, electrode assembly and ozone filter. This system is microprocessor controlled. The NeedleTEC process is a "in-line"; different sizes and shapes can be treated without set-up changes.

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