



SPRAY, AEROSOL AND OPHTHALMIC

MICRONIZED AND LOCALLY ADMINISTRATED DRUGS





AEROSOL, SPRAY AND OPHTHALMIC

AEROSOL:
micronized drug
for respiratory
conditions



Pharmaceutical Aerosols are pressurized dosage forms containing one or more active ingredients which upon activation emit a fine dispersion of liquid and/or solid materials in a gaseous medium. Aerosols are used to administer drugs to the lungs especially to treat respiratory conditions. They can also be used for topical application of drugs and for systemic action as the drug can be absorbed through the lungs into the blood supply.

Aerosol formulation comes also in the form of MDI (Metered Dose Inhaler), that is composed by drug, liquified propellant and stabilizing excipients.

SPRAY FORMULATION: alternative delivery system

Pharmaceutical sprays are medicines that are administered orally or nasally through respiration. In sprays a liquid or solid formulation is converted into a dynamic mixture dispersed in gas through atomization.



OPHTHALMIC DRUGS: sterility for a correct administration

Ophthalmic formulations come in form of solution, suspension, ointment or emulsion; they must be carefully balanced to ensure adequate bioavailability and minimal irritation, while maintaining quality control to gain regulatory approval.

Sterility is essential for ophthalmic formulations, because they come into direct contact not only with the surface of the cornea, but also with precorneal tissue.

The easier it is for these tissues to absorb the API, the more easily they can absorb bacteria and other contaminants.

CUSTOMIZED ENGINEERING

Spray, aerosol and ophthalmic plants comes into multiple shapes, to address customer's URS. The design takes into account the layout, the production need, the shutdowns, the mechanical team can design plant for revamping or greenfield projects. Each project complies with cGMP, BPE and ASME.



WE LISTEN, WE DESIGN,
WE CREATE WITH PASSION.



IT IS THE MIND THAT SHAPES THE STEEL

Solutions for the
pharmaceutical and
biotechnological industries

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