



DROPLETS OF WATER

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Water either corrodes or
forms a barrier film.

Specifications of Water

- A. Surface water
- B. Well water
- C. City water processed to meet
Federal Safe Drinking Water
Standards

Specifications of Water

D. City softened water

E. Reverse osmosis processed water

F. Deionized processed water

G. Distilled water





What is the surface tension
of water?



72 dynes per centimeter



What is the measure of hydrogen relative to the presence of the free hydroxyl radicals present in a solution?



pH



What is any organic that participates in a photochemical reaction while emitting into the atmosphere?



Volatile Organic Compound



Is water a VOC?



Yes, no, maybe.



What is the available process that allows for determining the species of charge and level of charge in a solution?



Zeta Potential



What are common
disinfection processes of
water?



Chlorination – Sodium Chlorite
Hydrogen Peroxide
Permanganate Chemistry
Peracetic Acid
Quaternary Amines



What are common physical disinfection processes of water?



UV Light Transmittance
Ozone
Non-Oxidizing Biocides



What chemistry is used in order to filter and purify water?



Carbon



What is the specification of carbon in its physical form?



Powder Carbon Granular Carbon



What is the species of carbon available?



Coal Based Carbon
Coconut Based Carbon
Wood Based Carbon



Which carbon is best for your application?



Jar Test



It is up to industry to customize the water they use in their process.



The City Water Utility is responsible to meet Federal and Local Regulations only.



City process water could be an issue

- Chlorine levels
- Alkalinity
- Hardness
- Conductivity

SUMMARY



The purification of water is critical to both households and industry. New technology is on the way to make this process even better.

Do you have
any
Questions? 😊

