🛜 4G

ULTRAPURE WATER = **ULTRASMART** ELECTRONICS

ULTRAPURE WATER & THE MICROCHIP



Water is an integral part of making your electronic smart. Microchips and their

pathways are built up in layers, and between layers need to be washed with water that is free of even the smallest amount of impurities (ultrapure water). The smallest contaminant can prevent a circuit from functioning correctly, which

HOW ULTRAPURE WATER (UPW) IS USED



PURE H20

UPW is the purest form of liquid that can be created on the planet. Stripped of all impurities, UPW is H2O in its most basic form, with no dirt, salts or minerals.²

HOW ULTRAPURE WATER IS MADE



TREATMENT STEPS

To become ultrapure, water must go through filtration, reverse osmosis, oxidation, UV, degasification, electrodeionization, ion exchange and ultrafiltration.



To a certain degree, UPW will

MIVERSA

Get it Wet? Here's

1 Turn it off immediately

What Can Help:

SIM card and battery 3 Place in bag with silic

2 Dry the outside

gel packets 4 Wait 3 days

5 Power on

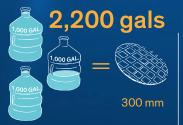
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dissolve virtually everything to which it is exposed.³

NOT SAFE

Ultrapure water is not safe to drink because it pulls minerals from the body.4

WHERE ULTRAPURE WATER IS USED



2,200 gals of water used to clean integrated circuit on a 300 mm wafer.⁵



A semiconductor's manufacturing plant's water use is equal to that of a city of 40-50K people.

2,000 aals/minute

Microelectronics facilities require up to 2,000 gals of water per minute to manufacture a product.



For more information visit www.dowwaterandprocess.com

1. http://www.cnet.com/how-to/how-to-dry-out-wet-phone-tablet/

2. http://qct-inc-usa.com/ULTRA_PURE_WATER.html

3. http://qct-inc-usa.com/ULTRA_PURE_WATER.html

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5. http://engineeredenvironment.tumblr.com/post/30464844411/water-use-in-the-semiconductor-manufacturing-industry 6. http://engineeredenvironment.tumblr.com/post/30464844411/water-use-in-the-semiconductor-manufacturing-industry 7. http://engineeredenvironment.tumblr.com/post/30464844411/water-use-in-the-semiconductor-manufacturing-industry