





It reduces the risk of:

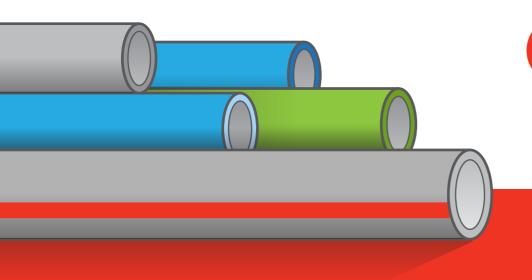
Accumulation of microorganisms which may cause health problems.



Impaired water quality, including taste and smell.

3

Bacterial growth, including multiplication of Legionella and Pseudomonas as well as increased counts of Coliform bacteria.



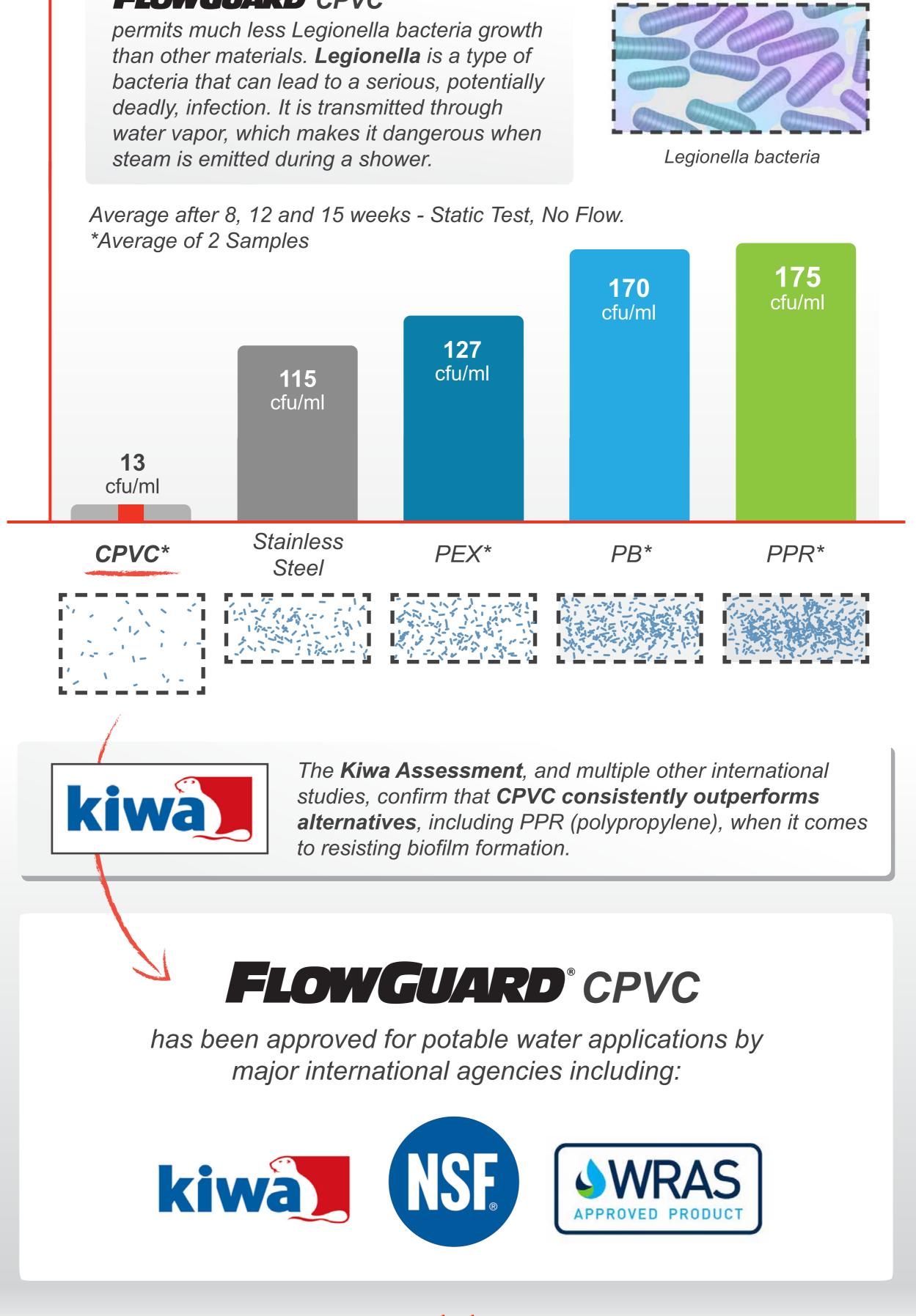
**CPVC** Resists Biofilm **Formation Better than** Alternatives

## **Biofilm Formation Potential (Pg ATP/cm<sup>2</sup>)**



## Number of Legionella Bacteria from Piping Materials

## FLOWGUARD<sup>®</sup> CPVC

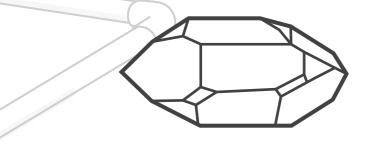


"CPVC consistently outperforms most other non-metallic piping materials with regard to its ability to resist the formation of biofilms."

#### - Dr. Paul Sturman

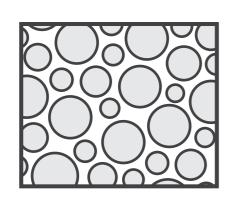
Research Professor and Industrial Coordinator for The Center for Biofilm Engineering at Montana State University

# **How CPVC Resists Biofilm Formation**



#### CPVC is made of 67% salt, which is a medium not suitable for bacterial growth.







#### Smoother interior pipe surface and superior corrosion resistance.

Corrosion creates pockets on the pipe surface for biofilm and bacteria to latch onto. **PPR** is prone to corrosion from chlorine and chlorine dioxide in water.

### **Higher Density Material.**

Less bacterial attachment by reducing the contact area between bacteria cells and pipe surface.

#### Contains no plasticizers.

*In plastics, plasticizers and other additives offer a nutrient* source to fungus. FlowGuard CPVC contains no additives for fungus to feed on.



FlowGuard CPVC is NSF 61 Annex G certificated, which verifies the weighted average lead content within the piping material is less than 0.25%.

# For more info, visit:



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