



JP Specialties, Inc. / Earth Shield® Waterstop

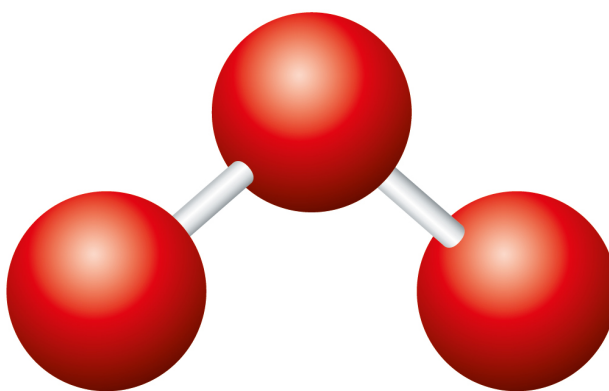
**Tech Tips 022**

# Thermoplastic Waterstops for Concentrated Ozone

*by David R. Poole CSI, ACI*

25811 Jefferson Avenue  
Murrieta, CA 92562  
T 19517637077  
F 19513860160  
jpspec@jpspecialties.com  
<https://www.jpspecialties.com>

Ozone (O<sup>3</sup>) is an unstable form of pure oxygen. Like chlorine, ozone is a potent oxidizing agent and is used in much the same way — to kill waterborne disease-causing bacteria and viruses.



Ozone



*A molecule of ozone (O<sup>3</sup>).*



Modern water treatment facilities, particularly ozone contactor structures, have utilized Earth Shield® waterstop for over 20 years. [Earth Shield® Thermoplastic Vulcanizate \(TPV\) waterstop](#) is immune to the corrosive effects of concentrated ozone. Our TPV polymer waterstop is suitable for ozone exposures up to 600 pphm (parts per hundred million).

25811 Jefferson Avenue  
Murrieta, CA 92562  
T 19517637077  
F 19513860160  
jpspec@jpspecialties.com  
<https://www.jpspecialties.com>

Independent ozone resistance testing (ASTM D 1171) has been performed on our product under direct contact, side-stream, off-gas, and finished water conditions. There was only a slight deviation from the control sample and negligible loss of physical properties.

