



	Chlorine Dioxide Gas	Ethylene Oxide
<b>Carcinogen Status</b>	<b>Non</b> -carcinogenic	Carcinogen
<b>Explosivity</b>	<b>Non</b> -explosive	Explosive 
<b>Antimicrobial Classification</b>	Sterilant	Sterilant
<b>Pre-Conditioning Requirements</b>	Typically, <b>90 minutes or less</b> No heat is necessary <b>65% relative humidity</b>	Typically, <b>12-72 hours</b> Product and packaging must withstand <b>118°F</b> (47°C) <b>65% relative humidity</b>
<b>Type of Cycle</b>	<b>Vacuum</b> or <b>Ambient</b>	<b>Vacuum</b>
<b>Necessary Cycle Parameters</b>	Humidification Gas Concentration Total Dosage	Heat Moisture Gas Concentration Time
<b>Aeration Requirements</b>	Occurs <b>within</b> the chamber <b>Minutes</b> in length 	Requires separate aeration rooms Aeration in highly heated environments of 50-60°C lasts <b>8-12 hours</b> Aeration in environments of 20°C last <b>7 days</b>
<b>Residuals</b>	<b>No residuals detected</b>	Higher concentrations increase the risk for residuals



**GULF  
STERILIZATION**