


**Chemical Oxidant Comparison Chart** (Copyright ChemRem International LLC, 2009)

	<b>H<sub>2</sub>O<sub>2</sub></b>	<b>MnO<sub>4</sub></b>	<b>O<sub>3</sub></b>	<b>S<sub>2</sub>O<sub>8</sub></b>
<b>Form</b>	Liquid	Liq/Solid	Gas	Liq/Solid
<b>Activate for Radicals</b>	Yes (iron)	No	Can (H <sub>2</sub> O <sub>2</sub> )	Yes (multiple) <small>(contact ChemRem)</small>
<b>Ox Pot (v) Basic/Act</b>	1.6 / <b>2.8</b> (OH*)	<b>1.68</b>	<b>2.07</b> / 2.8	2.12 / <b>2.7</b> (SO <sub>4</sub> <sup>-*</sup> )
<b>Kinetics</b>	Very Fast	Slow	Fast	Moderate
<b>By-Products</b>	Fe <sup>+3</sup> O <sub>2</sub> H <sub>2</sub> O	MnO <sub>2</sub> CO <sub>2</sub> Metals?	O <sub>2</sub>	SO <sub>4</sub> <sup>2-</sup> O <sub>2</sub> Na <sup>+2</sup>
<b>NOD (g/kg)*</b> <small>* including auto decomposition</small>	Infinite	3-30	Relative high	1-30