

COMPARISON • OXIDANT SELECTION

Ozone vs. JC 9450

Both are powerful oxidants — but JC 9450 delivers higher oxidation potential, full water solubility, no toxic by-products, and a measurable residual, at a fraction of the capital cost.

Ozone



Reactive oxygen from gaseous ozone — requires generation & air pretreatment.

JC 9450



Mineral oxychloride generates ROS in solution — ready to use, no gas handling.

ATTRIBUTE	OZONE	JC 9450
Form (ease of handling)	Gas — hard to dissolve	Liquid — ready to use
Oxidation potential (volts)	2.07	2.70
Solubility in water	5% max	100%
Formula	O ₃	ROS (hydroxyl radical ion)
Handling	Very dangerous — explosive	Very safe; corrosive due to high pH of neat product
Organic oxidation	High	High
Potential by-products	Bromate, HAA5s	None
Residual protection	No	Yes — via ORP (mV)
Remove taste & odor	Yes	Yes
Remove waterborne pathogens	Yes	Yes
Capital cost	Very high (\$\$\$\$)	Very low (\$)
Air pretreatment	Extensive	None

WHY OPERATORS SWITCH

Ready-to-use liquid • 100% soluble • 2.70 V oxidation potential • no bromate/HAA5 by-products
• ORP-measurable residual • very low capital cost — no ozone generator or air pretreatment.