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Zinc-Orthophosphate

Corrosion Inhibitor Products

Zinc-orthophosphate is an excellent corrosion inhibitor to eliminate or minimize red water problems associated with the corrosion of iron. Zinc-orthophosphates work differently from polyphosphates in that they are not sequestering type inhibitors. Instead, it produces a microscopic film on metal surfaces that acts as a barrier to corrosive environments that would normally cause corrosion. As a result, undesirable corrosion products such as iron, lead, and copper are not produced and system protection is enhanced. Zinc-orthophosphate is also beneficial in suppressing the release of asbestos fibers from AC piping. It plays a valuable role in potable systems to minimize the release of lead and copper from system piping and help municipal systems meet regulatory requirements.



Certified to ANSI/NSF 60



Treated with Mid South zinc-orthophosphate.



Treated with competitor non-zinc orthophosphate.

Mid South's zinc-orthophosphate product selection:

	MCT 5091	MCT 509	MCT 5071	MCT 5072	MCT 5075	MCT 5096	MCT 5097
Appearance	Clear liquid	Clear liquid	Clear liquid	Clear liquid	Clear liquid	Clear liquid	Clear liquid
Phosphate/ zinc ratio	1:1	1:1	3:1	3:1	5:1	3:1	5:1
Product type	Sulfate	Sulfate	Chloride	Chloride	Chloride	Sulfate	Chloride
Specific gravity	1.265	1.36	1.565	1.3	1.635	1.41	1.41
pH (neat)	1.29	1.1	<1.0	<1.0	<1.0	< 1.0	<1.0
Weight/gallon	10.51	11.34	13.10	10.84	13.64	11.76	11.80
Freeze point	< 16°F	< 14°F	-20°F	-50°F	-15°F	3°F	-12°F
Total phosphate	7.5 ± 0.5%	10.0 ± 0.5%	36.0 ± 0.5%	22.5 ± 0.5%	50.0 ± 0.5%	24.0 ± 0.5%	32.5 ± 0.5%
Solubility	complete	complete	complete	complete	complete	Complete	complete
NSF max. feed rate	20 mg/L	20 mg/L	24.5 mg/L	40.4 mg/L	20 mg/L	25 mg/L	29.6 mg/L

Note: All Mid South Chemical zinc-orthophosphates are certified to ANSI/NSF standard 60