

APPENDIX H: CHEMICAL COMPATIBILITY FOR LIQUID FERTILIZERS¹

Table key:

A - Acceptable if compatible with container or appurtenances.

N - Not acceptable because of chemical incompatibility.

1 - Acceptable if product is treated with corrosion inhibitor.

2 - Acceptable if warranted by equipment manufacturer for the intended use.

3 - Acceptable if cleaned after seasonal use and is used to store materials less than three months (cumulative) annually.

Container material	Product										
	Urea ammonium nitrate	Aqua ammonia	Low pressure N	Ammonium thio-sulfate	Ammonium poly-phosphate	Phosphoric acid	Potassium phosphate	Potassium hydroxide	Potash solutions	Mixed fertilizers, starters	Acid fertilizers
Stainless steel	A	A	A	A	A	A	A	A	A	A	A
Mild steel	1	A	N	1	A	N	N	N	3	3	N
Mild steel with liner	2	A	2	2	A	2	2	2	2	2	2
Aluminum	A	A	A	A	N	N	N	N	N	N	N
Fiberglass	A	2	N	A	A	2	A	2	A	A	2
Poly or plastic	A	2	N	A	A	2	A	2	A	A	2
Brass or copper alloys	N	N	N	N	N	N	N	N	N	N	N
Plugs, valves, tank inserts											
Stainless steel	A	A	A	A	A	A	A	A	A	A	A
Cast nickel stainless insert	A	A	A	A	A	N	A	2	A	A	N
Fully lined metal stainless insert	A	A	A	A	A	2	A	N	A	A	2
Nylon ball valve	A	A	2	A	A	N	A	A	A	A	2
Forged steel	A	A	A	A	A	N	2	N	A	A	N
Cast iron or mild steel	N	N	N	N	A	N	N	N	N	N	N
Poly or plastic	A	A	N	A	A	2	A	2	A	A	2
Brass or copper alloys	N	N	N	N	N	N	N	N	N	N	N
Plumbing											
Stainless steel	A	A	A	A	A	A	A	A	A	A	A
Forged steel	A	A	A	A	A	N	2	N	A	A	N
Cast iron or mild steel	1	1	2	1	A	N	N	N	3	3	N
Galvanized	N	N	N	N	A	N	N	N	N	3	N
PVC and other synthetics	2	2	N	2	2	N	A	2	2	2	2

¹The acceptability of materials for the above purposes is based on recommendations from various industry sources, and is not a recommendation or endorsement by MWPS.
Source: Wisconsin Dept of Agriculture, Trade and Consumer Protection. Not endorsed or recommended by MWPS or MDA.