

# Watering Systems.

## Water and Chemical Reference Guide

*Instruction # IM-030-06*  
*07/06*



**LUBING**



## Water quality

Below are Lubing's recommendations for drinking water quality when using our watering systems:

Description	Unit	Limited value
PH-Value		6,5 - 9,5
Calcium	mg/l	400
Sulphate	mg/l	240
Nitrate	mg/l	50
Chloride	mg/l	250
Iron	mg/l	0,2

These values should increase the life expectancy of your drinking systems.

The method of cleaning will depend upon the water quality, induced medication, vaccine, etc.

Lubing recommends flushing your watering system thoroughly at least once between each flock.



Material	ABS	POM	PVC	PP
Stand / issue 10.03	Breather unit Regulator Water tank	Nipple body support clamping screw	Nipple pipe Tube connector Breather unit	Turkey finishing cup Turkey rearing cup Pendulum holder
alcohol	2	3	4	4
Aldehyde	2	3	3	4
amine - alipatic	1	3	2	2
amine - aromatic	1	2	1	1
bases	3	3	4	4
petrol	2	4	2	2
ester	1	3	1	1
glycol	3	3	4	4
ketone	1	3	1	4
boiling water	2	3	2	2
hydrocarbon - alipatic	3	3	4	2
hydrocarbon - aromatic	1	3	1	2
hydrocarbon - chlorinated	1	2	1	2
solvent	2	3	3	
mineral acids - concentrated	1	2	4	3
mineral acids - diluted	3	3	4	4
engine oil	3	4	4	4
organic acids - concentrated	1	2	4	3
organic acids - diluted	3	3	4	4
oxydating mineral acids - concentrated	3	1	3	4

Four levels of chemical resistance:

- 1 = little resistant
- 2 = less resistant
- 3 = often resistant
- 4 = resistant

**Do not use chemicals with resistance values of 1 or 2 on your drinker system.**

This list is not complete and contains only the chemicals most commonly used.

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## ABS is not resistant against the following chemicals

### LUBING - plastic parts made of ABS:

4221-00 / 4223-00	ball tank
244-00	breather revolving unit
4235-00 / 4236-00	pressure regulator
4303-04	elbow end piece
4342-04	endcap
4343-04	elbow
4344-04	T-connector
4345 -04	connector
4356-04/4373-04/4374-04/4375-04/4381-04/4382-04/4383-04	transition piece

acetone	acetic acid (glacial acetic acid)	phenylethyl alcohol
aceto phenone	amyl acetate	phthalamic acid
allyl alcohol	butyl acetate	propylene chloride
amyl acetate	isopropyl acetate	propylene oxide
amyl mercaptan	ether	pyridine
aniline	ethyl benzole	methyl salicylate
benzaldehyde	ethyl chloride	nitric acid, conc.
benzole	ethylene dichloride	carbon disulphide
benzyl alcohol	frigen / freon 21	sulphuric acid, conc.
brake fluid ATE	frigen / freon 22	dibutyl sebacate
butyl acetate	furfural	tetrachloroethylene
carbolic acid	furfuryl alcohol	carbon tetrachloride
cetamoll 13	methyl chloride	thymol
chlorine, liquid	chlorobromide methylem	titanium tetrachloride
chlorobenzene	methylene dichloride	toluene
chloroacetic	methyl ethyll ketone	trichlorobenzole
chlorosulphuric acid	methyl isobutyl ketone	trichloroethane
diacetone alcohol	methyl propyl ketone	trichloroethylene
dichloroethane	chlorobenzene	trichlorophenol
dichlorobenzole	nitrobenzene	triglycolacetate
diethyl ether	diethyl phthalate	tricresyl phosphate
diethyl ketone	kerosene	verbena oil
1,4-dioxan	phenol conc.	xylol
diphenylamine	phenol 10%	tin tetrachloride
diphenyl ether		

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## POM is not resistant against the following chemicals

### LUBING - plastic parts made of POM:

4436-04	Clamping screw
030 130 01 01	Holder
4221-00 / 4223-00	Ball tank
4005-00/ 4005-01 / 4075-00 / 4075-01	Valve body

peracetic acid	maleic acid
acetyl chloride	naphthalene sulphane acid
formic acid	sodium bisulphite
antimony trichloride	solidum hypochlorite
benzoic acid	fuming sulphuric acid
bleaching liquoor	oxalic acid
boron trifluoride	ozone
brake fluid din 53521	phenol
butan-2-ol	phenol, alkaline solution
calcium hypochlorite	phosphoric acid
chloroacetic acid	cleaning agent pH<4
chlorosulphuric acid	salicylic acid
hydrogen chloride	nitric acid
disinfectant (available chlorine)	hydrloric acidoch
dichloroethylene	sulphur dioxide
acetic acid	sulphuric acid
fluorine	sulphuric acid, aqueous
hydrogen fluoride	nitrogen oxide
hydrofluoric acid	trichloroethylene
glycerin	trichloroacetic acid
glycolic acid	hydrogen peroxide
iodine; alkaline solution	wc-cleaning agent ph<4
hydrogen iodide	citric acid
soldering fluid	

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**PVC is not resistant against the following chemicals****LUBING - plastic parts made of PVC:**4102-04 / 4036 ff. nipple pipe  
4363-05 expansion connector

acetylacetone	dibutyl oxalate
acetaldehyde	dibutyl phthalate
acetone, aqueous	diethyl amine
acetophenone	dioctyl phthalate DOP
allyl chloride	acetic acid (glacial acetic acid)
formic acid 100%	acetic anhydride
amyl acetate	ethyl acetate
amyl chloride	ethyl chloride
aniline, aqueous	formamide
benzal chloride	forfural
benzole	hexachloroethane
benzophenone	hydrazine
benzotrichloride	methyl bromide
butyl acetate	methylen chloride
butyl chloride	naphthalene
capric acid 30%	nitrobenzene
chlorine, liquid	phenylhydrazine
chloroacetaldehyde	phosgene, liquid
chlorobenzaldehyde	phosphortrichloride
chlorocresol	pyridine
chloroform	nitric acid, aqueous 95%
chlorophenol	nitric oxide moist, dry
chlorotoluene	tetrachloromethane
chlorotrifluoroethylene	toluene
cyanogen acetic acid	trichloroethylene
cyclohexanol	phenylacetate
dibromomethylene	xytol
dibutyl ether	

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**PP is not resistant against the following chemicals****LUBING - plastic parts made of PP:**

4630-07	Turkey finishing cup
4631-07	Turkey rearing cup
4632-07	Pendulum holder
4612-01/4617-01	Drip cup small/large

acrylonitrile	ester
petrol	ethyl ether
benzole	furfural
benzyl alcohol	Aqua regia
benzyl chloride	carbon disulfate
butansäure	methyl ether
buthyl ether	petroleum
butyric acid	nitric acid
chlorine	hydrloric acidoch
chlorobenzene	hydrogen sulfide
chloroform	nitrobenzene
chloric sulfur acid	tetrachlorethylene
chloric sultan acid	trichlorbenzene
chlorosulphuric acid	toluene
dibuthyl ether	carbon disulfate
dichlorethane	xylol
diethly ether	

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