

PHYSICAL PROPERTIES OF  
COMMON INDUSTRIAL  
CHEMICALS

TIM'S CHEMICAL RESISTANCE CHART

RECOMMENDED  
LMI LIQUID END BY  
DIAPHRAGM SIZE CODE

Note: Ratings are based on an ambient temperature of 70o F.

Customers should test to confirm application suitability.

Chemical Name	PERCENT CONC.	SPECIFIC GRAVITY	ABSOLUTE VISCOSITY (CENTIPOISE)	Material												Diaphragm Size Code															
				PVC	Acrylic	Kynar (PVDF)	Polypropylene	Stainless Steel (316)	Hastelloy C	Ceramic	Polyethylene	Vinyl	Polyprel	Teflon (PTFE)	Viton	Hypalon	EPDM	Buna N	0.5	0.9	1.8	3.0	6.0	4	7	8	40	60	80		
Acetic Acid	36	1.0	1.5	1	2	1	1	1	1	1	1	1	1	2	3	1	2	1	1	2	353SI	393SI	363SI	25T	35T	2P#	2P#	2P#	2P	2P	2P
Acetone	100	0.8	0.3	3	3	2	1	1	1	1	3	3	3	3	1	3	2	1	3	257	297	277	27	37	7P#	7P#	7P#	7P#	7P	7P	
Alcohol	100	0.8	1.2	1	3	1	1	1	1	1	3	3	1	1	3	1	1	2	458SP	498SP	468SP	25P	35P	8P	8P#	8P#	2P	2P	2P		
Algaecide	25	1.2	100	1	3	1	1	2	1	1	1	1	1	1	1	3	3	3	353SI	393SI	363SI	25T	35T	8P#	8P#	8P#	8P#	2P	2P		
Alum	48	1.3	12	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	450SI	490SI	460SI	20S	30	8P	8P	8P	8P	8P	8P		
Aluminum Chloride	32	1.3	50	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	450SI	490SI	460SI	20S	30	8P	8P	8P	8P	8P	8P		
Aluminum Sulfate	48	1.3	12	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	450SI	490SI	460SI	20S	30	8P	8P	8P	8P	8P	8P		
Amine	5	1.0	10	3	3	2	1	1	1	1	3	3	2	1	3	3	2	3	155S	95S	65S	25T	35T	2P#	2P#	2P#	2P#	2P#	2P#		
Ammonia	80	0.7	1.3	1	3	2	1	1	1	1	1	1	1	1	3	3	1	2	458SI	498SI	468SI	25T	35T	8P	8P#	8P#	8P#	8P#	8P#		
Ammonium Chloride	28	1.0	1.0	1	3	1	1	2	3	1	1	1	2	1	1	1	1	2	353SI	393SI	363SI	25T	35T	8P#	8P	8P	8P	8P	8P		
Ammonium Hydroxide	28	0.9	1.3	1	1	1	1	1	1	1	1	3	1	1	3	1	1	3	450SI	490SI	460SI	20S	30	8P	8P#	8P#	8P#	8P#	8P#		
Ammonium Sulfate	40	1.2	1.7	1	1	1	1	2	1	1	1	1	3	1	2	1	1	1	353SI	393SI	363SI	20S	30	8P#	8P#	8P#	8P#	8P#	8P#		
Antifreeze	100	1.1	21	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	458SI	498SI	468SI	20S	30	8P	8P	8P	8P	8P	8P		
Benzene	100	0.9	0.6	3	3	1	3	1	1	1	3	3	3	1	1	3	3	3	257	297	277	27	37	7P	7P	7P	7P	7P	7P		
Biocide	25	1.2	10	1	3	1	1	2	1	1	1	1	1	1	1	3	3	3	155S	95S	65S	25T	35T	8P#	8P#	8P#	8P#	2P	2P		
Bleach	5.25	1.1	1.1	1	1	1	2	3	1	1	1	1	1	1	1	1	1	2	450HI	490HI	460HI	20S	30	8B	8B	8B	8B	8P	8P		
Boiler Water Treatment	25	1.1	10	1	1	1	1	2	1	1	1	2	1	1	2	1	1	1	458SI	498SI	468SI	20S	30	8P	8P#	8P#	8P#	8P#	8P#		
Bromine (from Tablets)	0.5	1.0	1.0	3	3	1	3	3	1	1	3	3	2	1	1	1	3	3	353HP	393HP	363HP	25P	35P	2B#	2B	2B	2B	2P	2P		
Calcium Carbonate	5	2.7	20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	89	79	29										
Calcium Chloride	40	1.4	9.0	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	450SI	490SI	460SI	20S	30	8P	8P	8P	8P	8P	8P		
Calcium Hydroxide	5	2.2	20	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	89	79	29										
Calcium Hypochlorite	15	1.0	2.0	1	1	1	2	2	2	1	1	1	1	1	1	1	2	2	450HI	490HI	460HI	20S	30	8B	8B	8B	8B	8P	8P		
Carbonic Acid	25	1.2	1.9	1	1	1	1	1	1	1	1	1	1	1	1	2	2	3	450SI	490SI	460SI	20S	30	8P	8P	8P	8P	8P	8P		
Caustic Soda	50	1.5	36	1	1	1	1	2	1	1	1	2	1	1	3	1	1	1	450SI	490SI	460SI	20S	30	8P	8P#	8P#	8P#	8P#	8P#		
Chlorine Dioxide	15	1.0	1.0	2	1	1	3	3	1	1	1	1	1	1	1	1	2	3	450HI	490HI	460HI	20S	30	2B	2B	2B	2B	2P	2P		
Chlorox (Bleach)	5.25	1.1	1.1	1	1	1	2	3	1	1	1	1	1	1	1	1	2	3	450HI	490HI	460HI	20S	30	8B	8B	8B	8B	8P	8P		
Citric Acid	50	1.3	40	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	458SI	498SI	468SI	26S	36	8P	8P	8P	8P	8P	8P		
Cooling Tower Treatment	25	1.1	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	458SI	498SI	468SI	26S	36	8P	8P	8P	8P	8P	8P		
Copper Sulfate	18	1.2	2.4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	450SI	490SI	460SI	20S	30	8P	8P	8P	8P	8P	8P		
Corrosion Inhibitor	50	1.4	1.3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	450SI	490SI	460SI	20S	30	8P	8P	8P	8P	8P	8P		
Creosote Oil	98	1.1	50	3	3	3	3	1	1	1	3	1	3	1	2	3	3	3	257	297	277	27	37	7P#	7P#	7P#	7P#	7P	7P		
Defoamer	25	1.0	100	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	156HV	86HV	76HV	20HV	30HV	PP	PP	PP	PP	PP	PP		
Deionized Water	100	1.2	1.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	353SI	393SI	363SI	25T	35T	2P#	2P#	2P#	2P#	2P#	2P#		
Detergent	60	1.0	40	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	353SI	393SI	363SI	20S	30	8P#	8P	8P	8P	8P	8P		
Diesel Fuel	100	0.8	4.0	2	1	1	1	1	1	1	2	1	1	1	1	1	3	1	450SI	490SI	460SI	20S	30	8P	8P	8P	8P	8P	8P		

1=Good  
2=OK  
3=Bad

For all blanks, please call Furrow Pump  
+ Please ask for teflon balls in you pump  
# Please ask for teflon seals in your pump





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				PVC	Acrylic	Kynar (PVDF)	Polypropylene	Stainless Steel (316)	Hastelloy C	Ceramic	Polyethylene	Vinyl	Polypropel	Teflon (PTFE)	Viton	Hypalon	EPDM	Buna N	0.5	0.9	1.8	3.0	6.0	4	7	8	40	60	80
Steam Line Treatment	5	1.0	10	3	3	2	1	1	1	1	3	3	2	1	3	3	3	3	155SP	95SP	65SP	25P	35P	2P#	2P#	2P#	1P#	1P#	2P
Sulfuric Acid	98	1.8	25	1	3	1	2	3	2	1	2	3	1	1	1	2	2	2	458SP	498SP	468SP	24	34	NP	NP	NP	NP	NP	NP
Urea	100	1.3	1.8	3		1	1	2	2	1	1	2	1	1	1		1	2	353SI	393SI	363SI	26S	36	2P	2P	2P	2P	2P	2P
Vegetable Oil	100	0.9	1.9	1	1	1	1	1	1	1	1	1	1	1	1	3	2	1	450SI	490SI	460SI	20S	30	8P	8P	8P	8P	8P	8P
Vinegar	5	1.0	1.0	2	1	2	1	2	2	1	1	1	1	1	1	1	1	2	155S	95S	65S	25T	35T	8P	8P	8P	1P	1P	8P
Water (Distilled Water)	100	1.0	1.2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	353SI	393SI	363SI	25T	35T	2P	2P	2P	2P	2P	2P
Zinc Chloride	65	1.8	14	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	450SI	490SI	460SI	20S	30	8P	8P	8P	8P	8P	8P
Zinc Nitrate	50	1.6	3.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	450SI	490SI	460SI	20S	30	8P	8P	8P	8P	8P	8P
Zinc Phosphate	30	1.1	10	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	450SI	490SI	460SI	20S	30	8P	8P	8P	8P	8P	8P

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