

ParaFlow™

Solution Analysis Report

Customer Name	DuPont Experimental Stn	Sample Drawn	Jun 20,2007
Unit Model No.	YPCST22G46CXA	Report Date	Jul 6,2007
Unit Serial No.	GBDM248980 #2	Report Number	R8768
Sample Received	Jun 28,2007	PO Number	2338793

Inhibitor Type: **Molybdate**

	<u>Sample Data</u>	<u>Allowable Range</u> <small>(Based on 55% LiBr)</small>	<u>Converted Data</u> <small>(Sample data converted to 55%)</small>
Sample Concentration	54.50 % LiBr		55.00 % LiBr
Sample Specific Gravity	1.608 at 75°F		1.620 at 75°F
Lithium Molybdate Inhibitor	134 mg/l	225-325	136 mg/l
Alkalinity (Lithium Hydroxide)	0.145 N	0.14-0.22	0.147 N
Dissolved Copper	30 mg/l	0-50	31 mg/l
Ammonia	38 mg/l	0-100	39 mg/l
Lithium Nitrate	3 mg/l		3 mg/l

Corrections Necessary

Lithium Molybdate Inhibitor	Add .000117 lbs. of solid Li ₂ MoO ₄ per lb. of solution in the unit OR Add .000036 gals of 30% Li ₂ MoO ₄ solution per lb. of solution in the unit.
Lithium Hydroxide	No
Copper Removal	No
Ammonia Removal	No

Data included in this report are the result of only one solution sample. If there is a drastic change in any parameter as compared with the last sample result, prior to adding chemicals or performing Copper or Ammonia Removal, it may be advisable to resample. The best method of preventing problems due to improper solution chemistry is by taking regular samples and trending the sample data. Maintaining proper Solution Chemistry is critical to the life of your ParaFlow Unit. **York Factory Service** is factory trained and authorized to perform the necessary chemical additions and adjustments required to keep your unit operable and reliable.

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Solution Analysis Report

Customer Name	DuPont Experimental Stn	Sample Drawn	Sep 25,2007
Unit Model No.	YPCST22G46CXA	Report Date	Oct 25,2007
Unit Serial No.	GBDM248980 #2	Report Number	R8778
Sample Received	Oct 18,2007	PO Number	2440277

Inhibitor Type: Molybdate

	<u>Sample Data</u>	<u>Allowable Range</u> <small>(Based on 55% LiBr)</small>	<u>Converted Data</u> <small>(Sample data converted to 55%)</small>
Sample Concentration	52.69 % LiBr		55.00 % LiBr
Sample Specific Gravity	1.575 at 75°F		1.620 at 75°F
Lithium Molybdate Inhibitor	175 mg/l	225-325	188 mg/l
Alkalinity (Lithium Hydroxide)	0.149 N	0.14-0.22	0.160 N
Dissolved Copper	0 mg/l	0-50	0 mg/l
Ammonia	66 mg/l	0-100	71 mg/l
Lithium Nitrate	2 mg/l		2 mg/l

Corrections Necessary

Lithium Molybdate Inhibitor	Add .000085 lbs. of solid Li ₂ MoO ₄ per lb. of solution in the unit OR Add .000026 gals of 30% Li ₂ MoO ₄ solution per lb. of solution in the uni
Lithium Hydroxide	No
Copper Removal	No
Ammonia Removal	No

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Solution Analysis Report

Customer Name	DuPont Experimental Stn	Sample Drawn	Jun 20,2007
Unit Model No.	YPC22G46CXA	Report Date	Jul 6,2007
Unit Serial No.	GADM233620 #3	Report Number	R7871
Sample Received	Jun 28,2007	PO Number	2338793

Inhibitor Type: Molybdate

	<u>Sample Data</u>	<u>Allowable Range</u> <small>(Based on 55% LiBr)</small>	<u>Converted Data</u> <small>(Sample data converted to 55%)</small>
Sample Concentration	50.62 % LiBr		55.00 % LiBr
Sample Specific Gravity	1.539 at 75°F		1.620 at 75°F
Lithium Molybdate Inhibitor	132 mg/l	225-325	151 mg/l
Alkalinity (Lithium Hydroxide)	0.139 N	0.14-0.22	0.159 N
Dissolved Copper	9 mg/l	0-50	10 mg/l
Ammonia	86 mg/l	0-100	98 mg/l
Lithium Nitrate	9 mg/l		10 mg/l

Corrections Necessary

Lithium Molybdate Inhibitor	Add .000108 lbs. of solid Li ₂ MoO ₄ per lb. of solution in the unit OR Add .000034 gals of 30% Li ₂ MoO ₄ solution per lb. of solution in the unit.
Lithium Hydroxide	No
Copper Removal	No
Ammonia Removal	No

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Solution Analysis Report

Customer Name	DuPont Experimental Stn	Sample Drawn	Sep 25,2007
Unit Model No.	YPC22G46CXA	Report Date	Oct 25,2007
Unit Serial No.	GADM233620 #3	Report Number	R8777
Sample Received	Oct 18,2007	PO Number	2440277

Inhibitor Type: Molybdate

	<u>Sample Data</u>	<u>Allowable Range</u> <small>(Based on 55% LiBr)</small>	<u>Converted Data</u> <small>(Sample data converted to 55%)</small>
Sample Concentration	53.94 % LiBr		55.00 % LiBr
Sample Specific Gravity	1.597 at 75°F		1.620 at 75°F
Lithium Molybdate Inhibitor	169 mg/l	225-325	175 mg/l
Alkalinity (Lithium Hydroxide)	0.161 N	0.14-0.22	0.166 N
Dissolved Copper	0 mg/l	0-50	0 mg/l
Ammonia	41 mg/l	0-100	42 mg/l
Lithium Nitrate	0 mg/l		0 mg/l

Corrections Necessary

Lithium Molybdate Inhibitor	Add .000093 lbs. of solid Li ₂ MoO ₄ per lb. of solution in the unit OR Add .000029 gals of 30% Li ₂ MoO ₄ solution per lb. of solution in the unit.
Lithium Hydroxide	No
Copper Removal	No
Ammonia Removal	No

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Solution Analysis Report

Customer Name	DuPont Experimental Stn	Sample Drawn	Jun 20,2007
Unit Model No.	YPCST22G46CXA	Report Date	Jul 6,2007
Unit Serial No.	GNLM94230017 #4	Report Number	R7872
Sample Received	Jun 28,2007	PO Number	2338793

Inhibitor Type: **Molybdate**

	<u>Sample Data</u>	<u>Allowable Range</u> <small>(Based on 55% LiBr)</small>	<u>Converted Data</u> <small>(Sample data converted to 55%)</small>
Sample Concentration	49.93 % LiBr		55.00 % LiBr
Sample Specific Gravity	1.527 at 75°F		1.620 at 75°F
Lithium Molybdate Inhibitor	121 mg/l	225-325	141 mg/l
Alkalinity (Lithium Hydroxide)	0.138 N	0.14-0.22	0.161 N
Dissolved Copper	24 mg/l	0-50	28 mg/l
Ammonia	65 mg/l	0-100	76 mg/l
Lithium Nitrate	20 mg/l		23 mg/l

Corrections Necessary

Lithium Molybdate Inhibitor	Add .000114 lbs. of solid Li ₂ MoO ₄ per lb. of solution in the unit OR Add .000035 gals of 30% Li ₂ MoO ₄ solution per lb. of solution in the unit.
Lithium Hydroxide	No
Copper Removal	No
Ammonia Removal	No

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Solution Analysis Report

Customer Name	DuPont Experimental Stn	Sample Drawn	Sep 25,2007
Unit Model No.	YPCST22G46CXA	Report Date	Oct 25,2007
Unit Serial No.	GNCM94230017 #4	Report Number	R5765
Sample Received	Oct 18,2007	PO Number	2440277

Inhibitor Type: Molybdate

	<u>Sample Data</u>	<u>Allowable Range</u> <small>(Based on 55% LiBr)</small>	<u>Converted Data</u> <small>(Sample data converted to 55%)</small>
Sample Concentration	52.11 % LiBr		55.00 % LiBr
Sample Specific Gravity	1.564 at 75°F		1.620 at 75°F
Lithium Molybdate Inhibitor	154 mg/l	225-325	168 mg/l
Alkalinity (Lithium Hydroxide)	0.153 N	0.14-0.22	0.167 N
Dissolved Copper	19 mg/l	0-50	21 mg/l
Ammonia	52 mg/l	0-100	57 mg/l
Lithium Nitrate	5 mg/l		5 mg/l

Corrections Necessary

Lithium Molybdate Inhibitor	Add .000097 lbs. of solid Li ₂ MoO ₄ per lb. of solution in the unit OR Add .000030 gals of 30% Li ₂ MoO ₄ solution per lb. of solution in the unit.
Lithium Hydroxide	No
Copper Removal	No
Ammonia Removal	No

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