

ParaFlow™

Solution Analysis Report

Customer Name	DuPont Experimental Stn	Sample Drawn	Jun 17,2016
Unit Model No.	YPCST22G46CXA	Report Date	Jun 28,2016
Unit Serial No.	GBDM248980 #2	Report Number	R18647
Sample Received	Jun 22,2016	PO Number	1-35219263089

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	54.66 % LiBr		55.00 % LiBr
Sample Specific Gravity	1.611 at 75°F		1.620 at 75°F
Lithium Molybdate Inhibitor	173 mg/l	225-325	175 mg/l
Alkalinity (Lithium Hydroxide)	0.161 N	0.14-0.22	0.163 N
Dissolved Copper	67 mg/l	0-100	68 mg/l
Ammonia	54 mg/l	0-100	55 mg/l
Lithium Nitrate	43 mg/l		44 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

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.

ParaFlow™

Solution Analysis Report

Customer Name	DuPont Experimental Stn	Sample Drawn	May 26,2016
Unit Model No.	YPC22G46CXA	Report Date	Jun 28,2016
Unit Serial No.	GADM233620 #3	Report Number	R18632
Sample Received	Jun 22,2016	PO Number	1-35219263089

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	54.86 % LiBr		55.00 % LiBr
Sample Specific Gravity	1.614 at 75°F		1.620 at 75°F
Lithium Molybdate Inhibitor	192 mg/l	225-325	193 mg/l
Alkalinity (Lithium Hydroxide)	0.162 N	0.14-0.22	0.163 N
Dissolved Copper	35 mg/l	0-100	35 mg/l
Ammonia	88 mg/l	0-100	89 mg/l
Lithium Nitrate	6 mg/l		6 mg/l

Corrections Necessary

Lithium Molybdate Inhibitor	Add .000082 lbs. of solid Li ₂ MoO ₄ per lb. of solution in the unit OR Add .000025 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.

ParaFlow™

Solution Analysis Report

Customer Name	DuPont Experimental Strn	Sample Drawn	Jun 17,2016
Unit Model No.	YPCST22G46CXA	Report Date	Jun 28,2016
Unit Serial No.	GNCM94230017 #4	Report Number	R18626
Sample Received	Jun 22,2016	PO Number	1-35219263089

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	53.54 % LiBr		55.00 % LiBr
Sample Specific Gravity	1.590 at 75°F		1.620 at 75°F
Lithium Molybdate Inhibitor	201 mg/l	225-325	210 mg/l
Alkalinity (Lithium Hydroxide)	0.144 N	0.14-0.22	0.151 N
Dissolved Copper	28 mg/l	0-100	29 mg/l
Ammonia	68 mg/l	0-100	71 mg/l
Lithium Nitrate	14 mg/l		15 mg/l

Corrections Necessary

Lithium Molybdate Inhibitor	Add .000071 lbs. of solid Li ₂ MoO ₄ per lb. of solution in the unit OR Add .000022 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.