

ION EXCHANGE RESIN ANALYSIS

Company Name	Watersurplus	Sample #	RTC-34967
Customer Name	Craig Hall	Date Received	10/15/2019
Contact #	(815) 636-8833	Date Analyzed	10/21/2019
Customer E-mail	Chall@watersurplus.com	Your ResinTech Rep	Grady Willis
Sample Description	Mixed Bed ION2810233	Tech Rep E-mail	gwillis@resintech.com
Reported Problem	None Reported	Tech Rep Phone	(219) 314-7194

ANALYSIS AT A GLANCE

MIXED BED RESIN

(See component analysis for additional details)

<i>Manufacturer & Part #</i>	Rohm & Haas Amberjet UP1400 & UP4000
<i>Overall Condition</i>	Good
<i>Resin Ratio</i>	Not Measured
<i>Physical Condition</i>	Good – sample is clean in appearance
<i>Overall Separation</i>	Good
<i>Bead Integrity</i>	Good
<i>Overall Recommendation</i>	Suitable for continued use

SUMMARY

	Anion	Cation
<i>Total Capacity meq/ml</i>	1.51	2.28
<i>Moisture % H₂O</i>	44.1%	38.7%
<i>Percent Broken</i>	0%	0%

Comments

The analysis indicates that the mixed bed sample and its components are in good physical and chemical condition.

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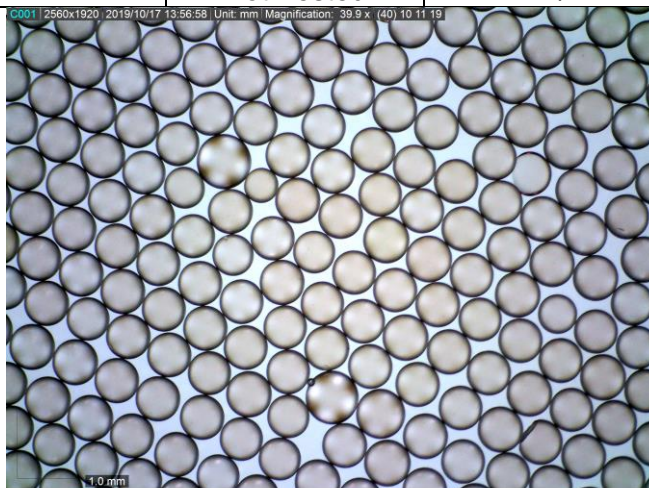
ANALYSIS AT A GLANCE

<i>Type of Resin</i>	Strong Base Anion Portion of the Mixed Bed
<i>Manufacturer & Part #</i>	Rohm & Haas Amberjet UP4000
<i>Chemical Condition</i>	Good
<i>Moisture</i>	Normal
<i>Physical Condition</i>	Good – sample is clean in appearance
<i>Bead Integrity</i>	Good
<i>External Foulants</i>	Low
<i>Internal Foulants</i>	Not evaluated / No visual evidence of organics
<i>Screen Size Distribution</i>	Uniform particle size
<i>Overall Recommendation</i>	Suitable for continued use

ROUTINE ANALYSIS

Based on Chloride Form Type 1 Gel Strong Base Anion Resin

	Results	Typical New	% of New
<i>Total Capacity meq/ml</i>	1.51	1.45	99+%
<i>Salt Splitting Capacity meq/ml</i>	1.46	1.40	99+%
<i>Moisture % H₂O</i>	44.1%	45%	
<i>Percent Broken</i>	0%	1%	
<i>TOC Extractables ppm</i>	Not Tested	N/A	



Comments

See page-1 for all comments.

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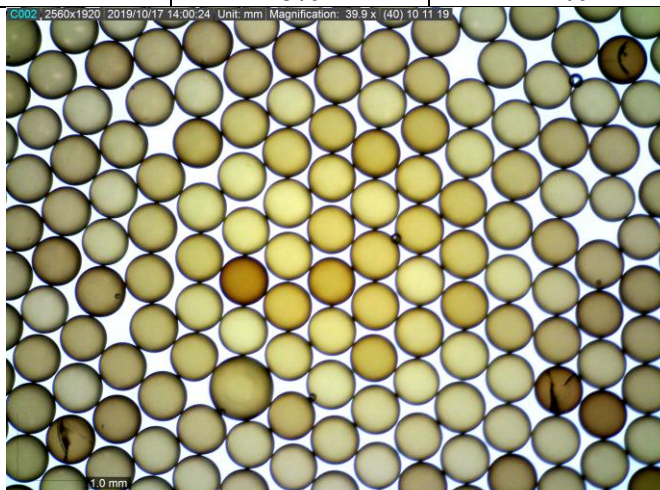
ANALYSIS AT A GLANCE

<i>Type of Resin</i>	Strong Acid Portion of the Mixed Bed
<i>Manufacturer & Part #</i>	Rohm & Haas Amberjet UP1400
<i>Chemical Condition</i>	Good
<i>Moisture</i>	Normal
<i>Physical Condition</i>	Good – sample is clean in appearance
<i>Bead Integrity</i>	Good
<i>External Foulants</i>	Low
<i>Internal Foulants</i>	Not evaluated / No visual evidence of iron
<i>Screen Size Distribution</i>	Uniform particle size
<i>Overall Recommendation</i>	Suitable for continued use

ROUTINE ANALYSIS

Based on Sodium Form 10% DVB Gel Cation Resin

	Results	Typical New	% of New
<i>Total Capacity meq/ml</i>	2.28	2.2	99+%
<i>Moisture % H₂O</i>	38.7%	41%	
<i>Percent Broken</i>	0%	1%	



Comments

See page-1 for all comments.