 THE DOW CHEMICAL COMPANY					
Certificate of Analysis		Customer Information			
Product Number	00099060186	Customer Name			
Product Name	SENTRY™ POLYOX™ WSR N80 - MFP NF Grade	Customer PO number			
Delivery No.		Customer Product Code			
Order Number		Container ID			
Shipping Units	2857.500 KG	Specification Number			
Date Shipped	2017-11-07 (YYYY-MM-DD)				
Shipment No.					
Batch Number					
Retest Date		2019-06-28 (YYYY-MM-DD)			
Manufacturing Date		2017-06-23 (YYYY-MM-DD)			
Quantity		2857.500 KG			
Net Weight		6299.714 LB			
It is hereby certified that the material above has been manufactured in accordance with the FDA's current Good Manufacturing Practices, was inspected and tested in accordance with the conditions and requirements of the current NF and current EP unless agreed to otherwise, and conforms in all respects to the specification relevant thereto.					
Test	Unit	Lower Limit	Upper Limit	Value	Method
Viscosity 5% aqueous solution	cP	65	90	87 ✓	DOWM 101962
pH at 25degC 5% aqueous solution		8.0	10.0	8.3 ✓	DOWM 102175
Particle Size Thru 20 mesh < 841 micron	%	100	-	100 ✓	DOWM 102261
Particle Size thru 35 mesh <500 MICRON	%	96	100	100 ✓	DOWM 102261
Particle Size THRU 100 MESH < 149 MICRON	%	35	75	62 ✓	DOWM 102261
Particle Size THRU 200 MESH < 74 MICRON	%	0	40	34 ✓	DOWM 102261
Loss on Drying	WT%	0.0	1.0	0.3 ✓	DOWM 102188
Alk. Earth Metals	WT%	0.0	1.0	0.2 ✓	DOWM 102225



THE DOW CHEMICAL COMPANY

Silicon Dioxide	WT%	0.8	3.0	2.0	✓	DOWM 101992
Residue on Ignition	WT%	0.0	2.0	0.6	✓	Current NF
Free Ethylene Oxide	ppm wt	0	1	1	✓	DOWM 102104
BHT	ppm wt	50	250	80	✓	DOWM 102192

Matt Hofmann, ETHOCEL, POLYOX, CELLOSIZO Quality Systems Specialist

"Typical Properties: This batch, based on audit testing and process control complies with the following additional specification requirements:

NF Identification Tests A & B: Pass; Residual Solvents: Passes Heavy Metals, as Pb not more than 10 ppm or 0.001 wt percent Alkaline earth metals as CaO. Volatiles - 45 min at 105 deg C.

Residue on ignition=non-silicon dioxide

Viscosity - Brookfield RVF, spindle 1, speed 50 rpm, 25 deg C.

Product Description: White to off-white, free flowing powder with a characteristic ammoniacal odor.

Manufactured in Institute, WV."

For inquiries please contact Customer Service or local sales

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Certificate of Analysis

Customer Information

Product Number 00099060186
 Product Name
 SENTRY™ POLYOX™ WSR N80 - MFP NF Grade
 Delivery No.
 Order Number
 Shipping Units 2794.000 KG
 Date Shipped 2017-11-07 (YYYY-MM-DD)
 Shipment No.

Customer Name
 Customer PO number
 Customer Product Code
 Container ID
 Specification Number

Batch Number
 Retest Date 2019-06-23 (YYYY-MM-DD)
 Manufacturing Date 2017-06-22 (YYYY-MM-DD)
 Quantity 2794.000 KG
 Net Weight 6159.721 LB

It is hereby certified that the material above has been manufactured in accordance with the FDA's current Good Manufacturing Practices, was inspected and tested in accordance with the conditions and requirements of the current NF and current EP unless agreed to otherwise, and conforms in all respects to the specification relevant thereto.

Test	Unit	Lower Limit	Upper Limit	Value	Method
Viscosity 5% aqueous solution	cP	65	90	85 //	DOWM 101962
pH at 25degC 5% aqueous solution		8.0	10.0	8.4 //	DOWM 102175
Particle Size Thru 20 mesh < 841 micron	%	100	-	100 //	DOWM 102261
Particle Size thru 35 mesh <500 MICRON	%	96	100	100 //	DOWM 102261
Particle Size THRU 100 MESH < 149 MICRON	%	35	75	55 //	DOWM 102261
Particle Size THRU 200 MESH < 74 MICRON	%	0	40	22 //	DOWM 102261
Loss on Drying	WT%	0.0	1.0	0.2 //	DOWM 102188
Alk. Earth Metals	WT%	0.0	1.0	0.2 //	DOWM 102225



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Silicon Dioxide	WT%	0.8	3.0	1.7 //	DOWM 101992
Residue on Ignition	WT%	0.0	2.0	0.5 //	Current NF
Free Ethylene Oxide	ppm wt	0	1	1 //	DOWM 102104
BHT	ppm wt	50	250	81 //	DOWM 102192

Matt Hofmann, ETHOCEL, POLYOX, CELLOSIZO Quality Systems Specialist

"Typical Properties: This batch, based on audit testing and process control complies with the following additional specification requirements:

NF Identification Tests A & B: Pass; Residual Solvents: Passes

Heavy Metals, as Pb not more than 10 ppm or 0.001 wt percent

Alkaline earth metals as CaO. Volatiles - 45 min at 105 deg C.

Residue on ignition=non-silicon dioxide

Viscosity - Brookfield RVF, spindle 1, speed 50 rpm, 25 deg C.

Product Description: White to off-white, free flowing powder with a characteristic ammoniacal odor.

Manufactured in Institute, WV."

For inquiries please contact Customer Service or local sales

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THE DOW CHEMICAL COMPANY

Certificate of Analysis

Customer Information

Product Number 00099060186
 Product Name
 SENTRY™ POLYOX™ WSR N80 - MFP NF Grade
 Delivery No.
 Order Number
 Shipping Units 2921.000 KG
 Date Shipped 2017-11-07 (YYYY-MM-DD)
 Shipment No.

Customer Name
 Customer PO number
 Customer Product Code
 Container ID
 Specification Number

Batch Number
 Retest Date 2019-06-22 (YYYY-MM-DD)
 Manufacturing Date 2017-06-21 (YYYY-MM-DD)
 Quantity 2921.000 KG
 Net Weight 6439.708 LB

It is hereby certified that the material above has been manufactured in accordance with the FDA's current Good Manufacturing Practices, was inspected and tested in accordance with the conditions and requirements of the current NF and current EP unless agreed to otherwise, and conforms in all respects to the specification relevant thereto.

Test	Unit	Lower Limit	Upper Limit	Value	Method
Viscosity 5% aqueous solution	cP	65	90	86 //	DOWM 101962
pH at 25degC 5% aqueous solution		8.0	10.0	8.4 "	DOWM 102175
Particle Size Thru 20 mesh < 841 micron	%	100	-	100 /	DOWM 102261
Particle Size thru 35 mesh <500 MICRON	%	96	100	100 "	DOWM 102261
Particle Size THRU 100 MESH < 149 MICRON	%	35	75	58 "	DOWM 102261
Particle Size THRU 200 MESH < 74 MICRON	%	0	40	27 //	DOWM 102261
Loss on Drying	WT%	0.0	1.0	0.2 //	DOWM 102188
Alk. Earth Metals	WT%	0.0	1.0	0.2 //	DOWM 102225



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Silicon Dioxide	WT%	0.8	3.0	1.9	DOWM 101992
Residue on Ignition	WT%	0.0	2.0	0.5	Current NF
Free Ethylene Oxide	ppm wt	0	1	1	DOWM 102104
BHT	ppm wt	50	250	79	DOWM 102192

Matt Hofmann, ETHOCEL, POLYOX, CELLOSIZO Quality Systems Specialist

"Typical Properties: This batch, based on audit testing and process control complies with the following additional specification requirements:

NF Identification Tests A & B: Pass; Residual Solvents: Passes

Heavy Metals, as Pb not more than 10 ppm or 0.001 wt percent

Alkaline earth metals as CaO. Volatiles - 45 min at 105 deg C.

Residue on ignition=non-silicon dioxide


Viscosity - Brookfield RVE, spindle 1, speed 50 rpm, 25 deg C.

Product Description: White to off-white, free flowing powder with a characteristic ammoniacal odor.

Manufactured in Institute, WV."

For inquiries please contact Customer Service or local sales

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 THE DOW CHEMICAL COMPANY					
Certificate of Analysis		Customer Information			
Product Number	00099060186	Customer Name			
Product Name		Customer PO number			
SENTRY™ POLYOX™ WSR N80 - MFP NF Grade		Customer Product Code			
Delivery No.					
Order Number					
Shipping Units	2476.500 KG	Container ID			
Date Shipped	2017-04-24 (YYYY-MM-DD)				
Shipment No.		Specification Number			
Batch Number					
Retest Date		2019-04-14 (YYYY-MM-DD)			
Manufacturing Date		2017-04-14 (YYYY-MM-DD)			
Quantity		2476.500 KG			
Net Weight		5459.752 LB			
It is hereby certified that the material above has been manufactured in accordance with the FDA's current Good Manufacturing Practices, was inspected and tested in accordance with the conditions and requirements of the current NF and current EP unless agreed to otherwise, and conforms in all respects to the specification relevant thereto.					
Test	Unit	Lower Limit	Upper Limit	Value	Method
Viscosity 5% aqueous solution	cP	65	90	78	DOWM 101962
pH at 25degC 5% aqueous solution		8.0	10.0	8.4	DOWM 102175
Particle Size Thru 20 mesh < 841 micron	%	100	-	100	DOWM 102261
Particle Size thru 35 mesh <500 MICRON	%	96	100	100	DOWM 102261
Particle Size THRU 100 MESH < 149 MICRON	%	35	75	55	DOWM 102261
Particle Size THRU 200 MESH < 74 MICRON	%	0	40	22	DOWM 102261
Loss on Drying	WT%	0.0	1.0	0.3	DOWM 102188
Alk. Earth Metals	WT%	0.0	1.0	0.2	DOWM 102225



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Silicon Dioxide	WT%	0.8	3.0	1.5 //	DOWM 101992
Residue on Ignition	WT%	0.0	2.0	0.4 //	Current NF
Free Ethylene Oxide	ppm wt	0	1	0 //	DOWM 102104
BHT	ppm wt	50	250	81 ✓	DOWM 102192

Matt Hofmann, ETHOCEL, POLYOX, CELLOSIZO Quality Systems Specialist

"Typical Properties: This batch, based on audit testing and process control complies with the following additional specification requirements:

- NF Identification Tests A & B: Pass ✓
- Residual Solvents: Passes ✓
- Heavy Metals, as Pb not more than 10 ppm or 0.001 wt percent
- Alkaline earth metals as CaO. Volatiles - 45 min at 105 deg C.
- Residue on ignition=non-silicon dioxide ✓
- Viscosity - Brookfield RVF, spindle 1, speed 50 rpm, 25 deg C.
- Product Description: White to off-white, free flowing powder with a characteristic ammoniacal odor.
- Manufactured in Institute, WV." ✓

For inquiries please contact Customer Service or local sales

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Certificate of Analysis

Customer Information

Product Number 00099060186
 Product Name
 SENTRY™ POLYOX™ WSR N80 - MFP NF Grade
 Delivery No.
 Order Number
 Shipping Units 2603.500 KG
 Date Shipped 2017-04-24 (YYYY-MM-DD)
 Shipment No.

Customer Name
 Customer PO number
 Customer Product Code
 Container ID
 Specification Number

Batch Number
 Retest Date 2019-04-13 (YYYY-MM-DD)
 Manufacturing Date 2017-04-13 (YYYY-MM-DD)
 Quantity 2603.500 KG
 Net Weight 5739.740 LB

It is hereby certified that the material above has been manufactured in accordance with the FDA's current Good Manufacturing Practices, was inspected and tested in accordance with the conditions and requirements of the current NF and current EP unless agreed to otherwise, and conforms in all respects to the specification relevant thereto.

Test	Unit	Lower Limit	Upper Limit	Value	Method
Viscosity 5% aqueous solution	CP	65	90	78 ✓	DOWM 101962
pH at 25degC 5% aqueous solution		8.0	10.0	8.4 ✓	DOWM 102175
Particle Size Thru 20 mesh < 841 micron	%	100	-	100 ✓	DOWM 102261
Particle Size thru 35 mesh <500 MICRON	%	96	100	100 ✓	DOWM 102261
Particle Size THRU 100 MESH < 149 MICRON	%	35	75	56 ✓	DOWM 102261
Particle Size THRU 200 MESH < 74 MICRON	%	0	40	21 ✓	DOWM 102261
Loss on Drying	WT%	0.0	1.0	0.3 ✓	DOWM 102188
Alk. Earth Metals	WT%	0.0	1.0	0.2 ✓	DOWM 102225



THE DOW CHEMICAL COMPANY

Silicon Dioxide	WT%	0.8	3.0	1.8 ✓	DOWM 101992
Residue on Ignition	WT%	0.0	2.0	0.5 ✓	Current NF
Free Ethylene Oxide	ppm wt	0	1	0 ✓	DOWM 102104
BHT	ppm wt	50	250	82 ✓	DOWM 102192

Matt Hofmann, ETHOCEL, POLYOX, CELLOSIZO Quality Systems Specialist

"Typical Properties: This batch, based on audit testing and process control complies with the following additional specification requirements:

NF Identification Tests A & B: Pass; Residual Solvents: Passes ✓

Heavy Metals, as Pb not more than 10 ppm or 0.001 wt percent ✓

Alkaline earth metals as CaO. Volatiles - 45 min at 105 deg C. ✓

Residue on ignition=non-silicon dioxide ✓


Viscosity - Brookfield RVF, spindle 1, speed 50 rpm, 25 deg C. ✓

Product Description: White to off-white, free flowing powder with a characteristic ammoniacal odor. ✓

Manufactured in Institute, WV." ✓

For inquiries please contact Customer Service or local sales

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 THE DOW CHEMICAL COMPANY	COLORCON INC 151 DOMORAH DR MONTGOMERYVILLE PA 18936-9642
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Certificate of Analysis	Customer Information
Product Number 00099060186	Customer Name COLORCON INC
Product Name SENTRY™ POLYOX™ WSR N80 - MFP NF Grade	Customer PO number WPO-92607
Delivery No. 809407742 / 000010	Customer Product Code ID99060186
Order Number 105916609	
Shipping Units 40.000 DR	Container ID 4575
Date Shipped 2016-12-12 (YYYY-MM-DD)	
Shipment No. 28866910	Specification Number 000000437249

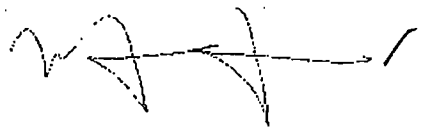
Batch Number
 Retest Date 2018-12-06 (YYYY-MM-DD)
 Manufacturing Date 2016-12-06 (YYYY-MM-DD)
 Quantity 40.000 DR
 Net Weight 5599.746 LB / 2540.000 KG

It is hereby certified that the material above has been manufactured in accordance with the FDA's current Good Manufacturing Practices, was inspected and tested in accordance with the conditions and requirements of the current NF and current EP unless agreed to otherwise, and conforms in all respects to the specification relevant thereto.

Test	Unit	Lower Limit	Upper Limit	Value	Method
Viscosity 5% aqueous solution	cP	65	90	69 ✓	DOWM 101962
pH at 25degC 5% aqueous solution		8.0	10.0	8.2	DOWM 102175
Particle Size THRU 10 MESH < 2000 MICRON	%	100	-	100	DOWM 102261
Particle Size Thru 20 mesh < 841 micron	%	100	-	100	DOWM 102261
Particle Size thru 35 mesh < 500 MICRON	%	96	100	100	DOWM 102261
Particle Size THRU 100 MESH < 149 MICRON	%	35	75	65	DOWM 102261
Particle Size THRU 200 MESH < 74 MICRON	%	0	40	26	DOWM 102261

 THE DOW CHEMICAL COMPANY	COLORGON INC 151 DOMORAH DR MONTGOMERYVILLE PA 18936-9642
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Loss on Drying	WT%	0.0	1.0	0.5 ✓	DOWM 102188
Alk. Earth Metals	WT%	0.0	1.0	0.2	DOWM 102225
Silicon Dioxide	WT%	0.8	3.0	1.6 ✓	DOWM 101992
Residue on Ignition	WT%	0.0	2.0	0.6 ✓	Current NF
Free Ethylene Oxide	ppm wt	0	1	1 ✓	DOWM 102104
BHT	ppm wt	50	250	77	DOWM 102192



Matt Hofmann, ETHOCEL, POLYOX, CELLOSIZO Quality Systems Specialist

"Typical Properties: This batch, based on audit testing and process control complies with the following additional specification requirements:

NF Identification Tests A & B: Pass; Residual Solvents: Passes

Heavy Metals, as Pb not more than 10 ppm or 0.001 wt percent

Alkaline earth metals as CaO. Volatiles - 45 min at 105 deg C.

Residue on ignition=non-silicon dioxide

Viscosity - Brookfield RVF, spindle 1, speed 50 rpm, 25 deg C.

Product Description: White to off-white, free flowing powder with a characteristic ammoniacal odor.

Manufactured in Institute, WV." ✓

For inquiries please contact Customer Service or local sales

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