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EVALUATION REPORT

Send To: C0349274

Facility: C0428730

Mr. Mark Parker
Royal Coatings, Inc.
2705 Concord Road
Belle Chasse, LA 70037

Result	PASS	Report Date	01-JUN-2020
Customer Name	Royal Coatings, Inc.		
Tested To	NSF/ANSI/CAN 61		
Description	Coating Royal PC-12		
Trade Designation	Royal PC-12		
Test Type	Annual Collection		
Job Number	A-00353343		
Project Number	W0597336		
Project Manager	Michael Camp		

Thank you for having your product tested by NSF International.

Please contact your Project Manager if you have any questions or concerns pertaining to this report.

Report Authorization 
Kathryn Foster - Technical Operations Manager, Water

Date 01-JUN-2020



General Information

Standard: NSF/ANSI/CAN 61

Monitor Code: A

Physical Description of Sample: Coating

Tested DCC Number: PM18825

Trade Designation/Model Number: Royal PC-12

Sample Id: **S-0001685639**
 Description: Coating
 Sampled Date: 02/18/2020
 Received Date: 02/18/2020

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab					
* Layer 1, Coatings Application Information					
Name of Product Applied	Royal PC - 12				
Name of Thinner Used	DI Water				
Volume of Thinner Used	15		15		mL
Number of Coats Applied	1		1		coat(s)
Total Dry Film Thickness	4.9		4.9		mils
Application Substrate	Steel				
Coat 1 Mix ratio: A-volume	300		300		mLs
Coat 1 Cure temp	70.68		70.68		degrees F
Coat 1 Wet mils applied	10.4		10.4		mils
Coat 1 Cure time:-hours	48		48		hours
Coat 1 Total area coated	100		100		percent
* Exposure Scheduling Information For Pipes & Related Products, Coati					
Is this an NSF applied material?	Yes				
If NSF applied, how many layers applied?	1		1		#Layers

Sample Id: **S-0001685642**
 Description: Sample exposed at 23C and pH 5
 Sampled Date: 04/30/2020
 Received Date: 02/18/2020

Normalization Information:							
Date exposure completed:	30-APR-2020	Calculated N1:	0.986	Field Exposure Time:	16 hours	Lab Exposure Time	16 hours
Field Surface Area:	61 in2	Lab Surface Area:	60.0 in2	Constant N2:	1	Misc. Factor:	1
Field Static Volume:	1 L	Lab Static Volume:	0.970 L	Calculated NFm:	1.00		
Compound Reference Key:	SPAC						

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab					
Metals Scan in water by ICPMS (Ref: EPA 200.8)					
Aluminum	ND(10)	ND(10)	ND(10)	ND(9.9)	ug/L
Arsenic	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Barium	1	1	ND(1)	ND(1)	ug/L



Sample Id: S-0001685642

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab (Continued)					
Beryllium	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Bismuth	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Cadmium	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Cerium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Cobalt	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Chromium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Cesium	ND(1)	ND(1)	ND(1)	ND(0.5)	ug/L
Copper	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Dysprosium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Erbium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Europium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Gallium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Gadolinium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Germanium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Hafnium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Holmium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Iridium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Lanthanum	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Lithium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Lutetium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Manganese	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Molybdenum	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Niobium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Neodymium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Nickel	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Lead	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Palladium	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.99)	ug/L
Praseodymium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Platinum	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Rubidium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Rhenium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Rhodium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Ruthenium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Antimony	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Selenium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Samarium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Tin	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Strontium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Tantalum	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Tellurium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Titanium	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Thallium	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Uranium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L



Sample Id: **S-0001685642**

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab (Continued)					
Vanadium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Tungsten	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Ytterbium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Zinc	ND(10)	ND(10)	ND(10)	ND(9.9)	ug/L
Zirconium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Silver	ND(1)	ND(1)	ND(1)	ND(1)	ug/L

Sample Id: **S-0001685643**

Description: Sample exposed at 23C and pH 10

Sampled Date: 04/30/2020

Received Date: 02/18/2020

Normalization Information:							
Date exposure completed:	30-APR-2020	Calculated N1:	0.986	Field Exposure Time:	16 hours	Lab Exposure Time	16 hours
Field Surface Area:	61 in2	Lab Surface Area:	60.0 in2	Constant N2:	1	Misc. Factor:	1
Field Static Volume:	1 L	Lab Static Volume:	0.970 L	Calculated NFm:	1.00		
Compound Reference Key:		SPAC					

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab					
Metals Scan in water by ICPMS (Ref: EPA 200.8)					
Aluminum	ND(10)	ND(10)	ND(10)	ND(9.9)	ug/L
Arsenic	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Barium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Beryllium	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Bismuth	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Cadmium	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Cerium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Cobalt	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Chromium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Cesium	ND(1)	ND(1)	ND(1)	ND(0.5)	ug/L
Copper	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Dysprosium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Erbium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Europium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Gallium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Gadolinium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Germanium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Hafnium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Holmium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Iridium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L



Sample Id: **S-0001685643**

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab (Continued)					
Lanthanum	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Lithium	ND(1)	1	ND(1)	ND(1)	ug/L
Lutetium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Manganese	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Molybdenum	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Niobium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Neodymium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Nickel	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Lead	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Palladium	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.99)	ug/L
Praseodymium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Platinum	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Rubidium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Rhenium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Rhodium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Ruthenium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Antimony	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Selenium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Samarium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Tin	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Strontium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Tantalum	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Tellurium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Titanium	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Thallium	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Uranium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Vanadium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Tungsten	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Ytterbium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Zinc	ND(10)	ND(10)	ND(10)	ND(9.9)	ug/L
Zirconium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Silver	ND(1)	ND(1)	ND(1)	ND(1)	ug/L

Sample Id: **S-0001685646**
 Description: Sample exposed at 23C and pH 8
 Sampled Date: 04/30/2020
 Received Date: 02/18/2020

Normalization Information:							
Date exposure completed:	30-APR-2020	Calculated N1:	0.976	Field Exposure Time:	16 hours	Lab Exposure Time:	16 hours
Field Surface Area:	61 in2	Lab Surface Area:	120.0 in2	Constant N2:	1	Misc. Factor:	1
Field Static Volume:	1 L	Lab Static Volume:	1.92 L	Calculated NFm:	1.00		
Compound Reference Key:		SPAC					

Sample Id: **S-0001685646**

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab					
4,4-Dimethyl-1,3-oxazolidine					
4,4-Dimethyl-1,3-oxazolidine	ND(20)	ND(20)	ND(20)	ND(20)	ug/L
Polynuclear Aromatic Hydrocarbons by GCMS					
Acenaphthene	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Acenaphthylene	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Anthracene	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Benzo(a)Anthracene	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Benzo(a)Pyrene (PAH)	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Benzo(b)Fluoranthene	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Benzo(g,h,i)Perylene	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Benzo(k)Fluoranthene	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Chrysene	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Dibenzo(a,h)Anthracene	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Fluoranthene	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Fluorene	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Indeno(1,2,3,-c,d)Pyrene	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Naphthalene	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Phenanthrene	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Pyrene	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
* Acrylonitrile, Acetates and Acrylates by VOC GCMS					
Acrylonitrile	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Ethyl acetate	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Methyl acrylate	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Ethyl acrylate	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
tert-Butyl Acetate	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Methyl methacrylate	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Isobutyl acetate	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
n-Butyl acetate	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Butyl acrylate	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Butyl methacrylate	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Methyl Acetate	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Metals Scan in water by ICPMS (Ref: EPA 200.8)					
Aluminum	ND(10)	ND(10)	ND(10)	ND(9.8)	ug/L
Arsenic	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Barium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Beryllium	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Bismuth	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Cadmium	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Cerium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Cobalt	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Chromium	ND(1)	2	ND(1)	ND(1)	ug/L
Cesium	ND(1)	ND(1)	ND(1)	ND(0.5)	ug/L
Copper	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Dysprosium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Erbium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L



Sample Id: **S-0001685646**

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab (Continued)					
Europium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Gallium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Gadolinium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Germanium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Hafnium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Mercury	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Holmium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Iridium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Lanthanum	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Lithium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Lutetium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Manganese	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Molybdenum	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Niobium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Neodymium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Nickel	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Lead	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Palladium	ND(1.0)	ND(1.0)	ND(1.0)	ND(0.98)	ug/L
Praseodymium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Platinum	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Rubidium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Rhenium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Rhodium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Ruthenium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Antimony	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Selenium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Samarium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Tin	0.9	1.0	ND(0.5)	ND(0.5)	ug/L
Strontium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Tantalum	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Tellurium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Titanium	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Thallium	ND(0.2)	ND(0.2)	ND(0.2)	ND(0.2)	ug/L
Uranium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Vanadium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Tungsten	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Ytterbium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Zinc	ND(10)	ND(10)	ND(10)	ND(9.8)	ug/L
Zirconium	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Silver	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
BASE/NEUTRAL/ACID EPA METHOD 625 Scan for Tentatively Identified Compound					
No Compounds Detected	ND(4)	Complete	ND(4)	ND(4)	ug/L
Scan Control Complete	TRUE				
Semivolatile Compounds, Base/Neutral/Acid Target 625, Data Workup					



Sample Id: S-0001685646

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab (Continued)					
Pyridine	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Nitrosodimethylamine (N-)	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
N-Nitrosomethylethylamine	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
5-Methyl-2-hexanone (MIAK)	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
1-Methoxy-2-propanol acetate	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2-Heptanone	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Cyclohexanone	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Nitrosodiethylamine (N-)	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Isobutylisobutyrate	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Aniline	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Phenol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Di(chloroethyl) ether	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2-Chlorophenol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2,3-Benzofuran	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
1,3-Dichlorobenzene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
1,4-Dichlorobenzene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
3-Cyclohexene-1-carbonitrile	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2-Ethylhexanol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Benzyl alcohol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
1,2-Dichlorobenzene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
bis(2-Chloroisopropyl)ether	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2-Methylphenol (o-Cresol)	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
N-Methylaniline	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Acetophenone	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
N-Nitrosodi-n-propylamine	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
N-Nitrosopyrrolidine	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
3- and 4-Methylphenol (m&p-Cresol)	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Hexachloroethane	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2-Phenyl-2-propanol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
N-Nitrosomorpholine	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Nitrobenzene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2,6-Dimethylphenol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
N-Vinylpyrrolidinone	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
N-Nitrosopiperidine	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Triethylphosphate	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Isophorone	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2-Nitrophenol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2,4-Dimethylphenol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
bis(2-Chloroethoxy)methane	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2,4-Dichlorophenol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Trichlorobenzene (1,2,4-)	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Naphthalene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
4-Chloroaniline	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
1,1,3,3,-Tetramethyl-2-thiourea	ND(4)	ND(4)	ND(4)	ND(4)	ug/L



Sample Id: S-0001685646

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab (Continued)					
Hexachlorobutadiene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Benzothiazole	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
N-Nitrosodi-n-butylamine	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
4-Chloro-3-methylphenol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
p-tert-Butylphenol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2-Ethylhexyl glycidyl ether	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2,6-Di-t-butyl-4-methylphenol(BHT)	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Methylnaphthalene, 2-	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Cyclododecane	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2,4,5-Trichlorophenol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2,4,6-trichlorophenol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
1(3H)-Isobenzofuranone	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2-Chloronaphthalene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2-Nitroaniline	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
1,1'-(1,3-Phenylene)bis ethanone	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2,6-Di-tert-butylphenol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Dimethylphthalate	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
1,1'-(1,4-Phenylene)bis ethanone	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Acenaphthylene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Benzenedimethanol, a,a,a',a'-tetramethyl-1,3-	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2,6-Dinitrotoluene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2,4-Dinitrotoluene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Benzenedimethanol, a,a,a',a'-Tetramethyl-1,4-	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
2,4-Di-tert-butylphenol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Dimethyl terephthalate	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Acenaphthene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Dibenzofuran	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Ethyl-4-ethoxybenzoate	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
4-Nitrophenol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Cyclododecanone	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Diethyl Phthalate	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
p-tert-Octylphenol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Fluorene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
4-Chlorophenylphenylether	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
3-Nitroaniline	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
4-Nitroaniline	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Nitrosodiphenylamine (N-)	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Azobenzene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
4-Bromophenylphenylether	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Hexachlorobenzene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Pentachlorophenol	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Phenanthrene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Anthracene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Diisobutyl phthalate	ND(2)	ND(2)	ND(2)	ND(2)	ug/L



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Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab (Continued)					
Dibutyl phthalate	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Diphenyl sulfone	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Hydroxymethylphenylbenzotriazole	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Fluoranthene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Pyrene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Butyl benzyl phthalate	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Di(2-ethylhexyl)adipate	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
3,3-Dichlorobenzidine	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Benzo(a)anthracene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Di(2-ethylhexyl)phthalate	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Chrysene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Di-n-octylphthalate	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Benzo(b)fluoranthene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Benzo(k)fluoranthene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Benzo(a)Pyrene (PAH)	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Dibenzo(a,h)anthracene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Indeno(1,2,3-cd)pyrene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Benzo(g,h,i)perylene	ND(2)	ND(2)	ND(2)	ND(2)	ug/L
Asphaltics (Modified EPA 524.2)					
4-Bromotoluene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
p-Ethyltoluene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
3,4-Dimethylchlorobenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
* Acrylic Acid, LC/UV					
Acrylic acid	ND(10)	ND(10)	ND(10)	ND(9.8)	ug/L
* Ethylhexyl acrylate, 2-, P&T GC/MS					
2-Ethylhexyl acrylate	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
* Methacrylic Acid, LC/UV					
Methacrylic Acid	ND(10)	ND(10)	ND(10)	ND(9.8)	ug/L
* Propylene glycol , LC/MS					
Glycol, Propylene	ND(200)	ND(200)	ND(200)	ND(200)	ug/L
Volatile Organic Compounds (Ref: EPA 524.2)					
Dichlorodifluoromethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Chloromethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Vinyl Chloride	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Bromomethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Chloroethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Trichlorofluoromethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Trichlorotrifluoroethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Methylene Chloride	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,1-Dichloroethylene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
trans-1,2-Dichloroethylene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,1-Dichloroethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
2,2-Dichloropropane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
cis-1,2-Dichloroethylene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L



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Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab (Continued)					
Chloroform	3.0	ND(0.5)	3.0	3.0	ug/L
Bromochloromethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,1,1-Trichloroethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,1-Dichloropropene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Carbon Tetrachloride	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,2-Dichloroethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Trichloroethylene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,2-Dichloropropane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Bromodichloromethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Dibromomethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
cis-1,3-Dichloropropene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
trans-1,3-Dichloropropene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,1,2-Trichloroethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,3-Dichloropropane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Tetrachloroethylene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Chlorodibromomethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Chlorobenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,1,1,2-Tetrachloroethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Bromoform	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,1,2,2-Tetrachloroethane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,2,3-Trichloropropane	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,3-Dichlorobenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,4-Dichlorobenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,2-Dichlorobenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Carbon Disulfide	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
Methyl-tert-Butyl Ether (MTBE)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
tert-Butyl ethyl ether	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Methyl Ethyl Ketone	ND(5)	ND(5)	ND(5)	ND(5)	ug/L
Methyl Isobutyl Ketone	ND(5)	ND(5)	ND(5)	ND(5)	ug/L
Toluene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Ethyl Benzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
m+p-Xylenes	ND(1)	ND(1)	ND(1)	ND(1)	ug/L
o-Xylene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Styrene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Isopropylbenzene (Cumene)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
n-Propylbenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Bromobenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
2-Chlorotoluene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
4-Chlorotoluene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,3,5-Trimethylbenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
tert-Butylbenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,2,4-Trimethylbenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
sec-Butylbenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
p-Isopropyltoluene (Cymene)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L



Sample Id: **S-0001685646**

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab (Continued)					
1,2,3-Trimethylbenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
n-Butylbenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,2,4-Trichlorobenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Hexachlorobutadiene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
1,2,3-Trichlorobenzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Naphthalene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Benzene	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L
Total Trihalomethanes	3.0	ND(0.5)	3.0	3.0	ug/L
Total Xylenes	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	ug/L

Sample Id: **S-0001685647**

Description: Coating

Sampled Date: 02/18/2020

Received Date: 02/18/2020

Testing Parameter	Sample	Control	Result	Normalized Result	Units
Chemistry Lab					
Lead in solids by ICPMS					
Lead	ND(0.001)		ND(0.001)		%



Testing Laboratories:

All work performed at:	<p style="margin: 0;">Id</p> <p style="margin: 0;">-----</p> <p style="margin: 0;">→ NSF_AA</p>	<p style="margin: 0;">Address</p> <p style="margin: 0;">-----</p> <p style="margin: 0;">NSF International 789 N. Dixboro Road Ann Arbor MI 48105</p>
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References to Testing Procedures:

NSF Reference	Parameter / Test Description
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C0168	4,4-Dimethyl-1,3-oxazolidine
C0314	Polynuclear Aromatic Hydrocarbons by GCMS
C0528	Lead in solids by ICPMS
C0743	* Acrylonitrile, Acetates and Acrylates by VOC GCMS
C1005	* Layer 1, Coatings Application Information
C1021	* Exposure Scheduling Information For Pipes & Related Products, Coati
C1184	Metals Scan in water by ICPMS (Ref: EPA 200.8)
C2023	BASE/NEUTRAL/ACID EPA METHOD 625 Scan for Tentatively Identified Compounds (TICs)
C2024	Semivolatile Compounds, Base/Neutral/Acid Target 625, Data Workup
C3382	Asphaltics (Modified EPA 524.2)
C4022	* Acrylic Acid, LC/UV
C4172	* Ethylhexyl acrylate, 2-, P&T GC/MS
C4267	* Methacrylic Acid, LC/UV
C4330	* Propylene glycol , LC/MS
C4662	Volatile Organic Compounds (Ref: EPA 524.2)

Test descriptions preceded by an asterisk "*" indicate that testing has been performed per NSF International requirements but is not within its scope of accreditation.

Unless otherwise indicated, method uncertainties are not applied in any determinations of conformity. Testing utilizes the requested sections of any referenced standards, which may not be the entire standard.