

Issued Date: 2018. 01. 12

NEOFLAM CO.,LTD.

1, Giuepdosi-ro Jijung-myeon Wonju-si, Gangwon-do Korea

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The following sample(s) was/were submitted and identified by/on behalf of the client as:-

SGS File No. : AYAA18-01966

Product Name : Neoflam Ceramic Coating

Item No./Part No. : N/A

Received Date : 2018. 01. 05

Test Period : 2018. 01. 05 to 2018. 01. 12

Test Results: For further details, please refer to following page(s)

SGS Korea Co., Ltd.

Jeff Jang / Chemical Lab Mgr

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Sample No. : AYAA18-01966.001

Sample Description : Neoflam Ceramic Coating

Item No./Part No. : N/A
Materials : N/A

Perfluorinated Compounds (PFCs)

Test Items	Unit	Test Method	MDL	Results
Perfluorobutane Acid (PFBA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
Perfluorodecane Acid (PFDA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
Perfluoropentane Acid (PFPA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
Perfluorobutane Sulfonate (PFBS)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
Perfluorohexane Acid(PFHxA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
7H-Dodecanefluoroheptane Acid (HPFHpA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
Perfluoroheptane Acid (PFHpA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
2H,2H-Perfluorodecane Acid (H2PFDA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
Perfluorohexane Sulfonate (PFHxS)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
Perfluorootanoic acid (PFOA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
Perfluorooctanesulphonic acid 1H,1H,2H,2H (H4PFOS; 6:2)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
Perfluoroheptane Sulfonate (PFHpS)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
Perfluorononane Acid (PFNA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
2H,2H,3H,3H-Perfluoroundecanoic Acid (H4PFUnA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
Perfluorooctane Sulfonamide (PFOSA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
Perfluorootanoic sulfonate (PFOS) *	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
Perfluorodecane Sulfonate (PFDS)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
Perfluoroundecanoic Acid (PFUnA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
Perfluorododecanoic Acid (PFDoA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.
2-(N-methylperfluoro- 1-octanesulfonamido) - ethanol (MeFOSE)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.

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Sample No. : AYAA18-01966.001

Sample Description : Neoflam Ceramic Coating

Item No./Part No. : N/A
Materials : N/A

Perfluorinated Compounds (PFCs)

Sindsimilated Composition (1 + CO)						
Test Items	Unit	Test Method	MDL	Results		
2- (N-ethylperfluoro-1-octanesulfonamido)-eth anol (EtFOSE)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.		
Perfluorotridecanoic Acid (PFTrA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.		
Perfluorotetradecanoic Acid (PFTeA)	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.		
Ammonium pentadecafluorooctanoate (APFO)#	mg/kg	CEN/TS 15968 : 2010, HPLC/MS	1	N.D.		
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	mg/kg	CEN/TS 15968 : 2010, GC/MS	1	N.D.		
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	mg/kg	CEN/TS 15968 : 2010, GC/MS	1	N.D.		
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	mg/kg	CEN/TS 15968 : 2010, GC/MS	1	N.D.		
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	mg/kg	CEN/TS 15968 : 2010, GC/MS	1	N.D.		
1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	mg/kg	CEN/TS 15968 : 2010, GC/MS	1	N.D.		
1H,1H,2H,2H-Perfluoro -1-dodecanol (10:2 FTOH)	mg/kg	CEN/TS 15968 : 2010, GC/MS	1	N.D.		
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	mg/kg	CEN/TS 15968 : 2010, GC/MS	1	N.D.		

NOTE: (1) N.D. = Not detected.(<MDL)

- (2) mg/kg = ppm
- (3) MDL = Method Detection Limit
- (4) = No regulation
- (5) ** = Qualitative analysis (No Unit)
- (6) Negative = Undetectable / Positive = Detectable
- (7) *: PFOS was reported as the sum of the corresponding concentration of PFOS derivatives scaling on a molar basis.
- (8) #: APFO was reported as the corresponding concentration of PFOA scaling on a molar basis .

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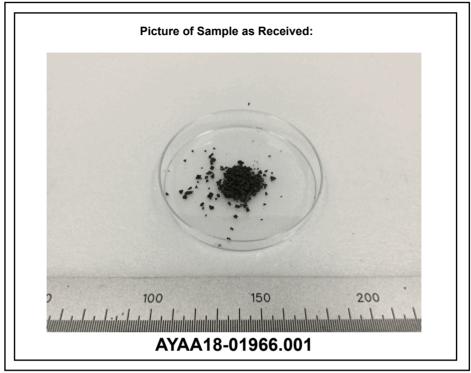
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