



Test Report

No.: GZHL1908034854IP

Date: Aug 29, 2019

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HUGS AND THINGS
VROEGE VAN TOL 31, 6851VR HUISSEN, THE NETHERLANDS

Sample Description : 6 SILICONE MASTERBATCH COLORS

Manufacturer :

Supplier :

Country of Origin : CHINA

Country of Destination : THE NETHERLANDS

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. : CAN19-166211

Sample Receiving Date : Aug 22, 2019

Test Performing Date : Aug 22, 2019 to Aug 29, 2019

Test Performed : Selected test(s) as requested by applicant

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

Test Requested	Result
EN71-12:2016 - N-Nitrosamines and N-Nitrosatable substances	PASS
EN 71-3:2019 - Migration of Certain Elements	PASS
Determination of Lead (Pb) content in the submitted sample(s) with reference to Entry 63 of Commission Regulation (EU) No 2015/628 amending Annex XVII to REACH Regulation (EC) No 1907/2006.	PASS
To determine the Cadmium Content in the selected part(s) of submitted sample(s) with reference to Entry 23 of Commission Regulation (EU) 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006.	PASS
Annex I of European Regulation Persistent Organic Pollutants (POPs) (EU) 2019/1021 - Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	PASS
Determination of Polycyclic Aromatic Hydrocarbons (PAHs) in the submitted sample(s) with reference to Entry 50 paragraph 5 to 8 of Commission Regulation (EU) 1272/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006.	PASS



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Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



GZHL1908034854IP

Yan Lau
Authorized Signatory



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Test Results :

Test Part Description :

SGS Sample ID	Description
CAN19-166211.001	Yellow silicone
CAN19-166211.002	Red silicone
CAN19-166211.003	Mauve silicone
CAN19-166211.004	Black silicone
CAN19-166211.005	Dark purple silicone
CAN19-166211.006	Dark green silicone
CAN19-166211.007	White silicone

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

EN71-12:2016-N-nitrosamines and N-nitrosatable substances

Test Method : With reference to BS EN71-12:2016, analysis was performed by LC-MS/MS.

Test Item(s)	Limit	Unit	MDL	001	002	003
N-Nitrosamines	0.02	mg/kg	0.010	ND	ND	ND
N-Nitrosatable substances	1	mg/kg	0.10	ND	ND	ND
Comment				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	004	005	006
N-Nitrosamines	0.02	mg/kg	0.010	ND	ND	ND
N-Nitrosatable substances	1	mg/kg	0.10	ND	ND	ND
Comment				PASS	PASS	PASS

Test Item(s)	Limit	Unit	MDL	007
N-Nitrosamines	0.02	mg/kg	0.010	ND
N-Nitrosatable substances	1	mg/kg	0.10	ND
Comment				PASS



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Notes :

N-Nitrosamines tested : N-nitrosodiethanolamine (NDELA), N-nitrosodimethylamine (NDMA), N-nitrosodiethylamine (NDEA), N-nitrosodipropylamine (NDPA), N-nitrosodibutylamine (NDBA), N-nitrosopiperidine (NPIP), N-nitrosomorpholine (NMOR), N-nitrosodibenzylamine (NDBzA), N-nitroso-N-methyl-N-phenylamine (NMPH_A), N-nitroso-N-ethyl-N-phenylamine (NEPH_A), N-nitrosodiisononylamine (NDiNA), N-nitrosodiisopropylamine (NDiPA) and N-Nitrosodiisobutylamine (NDiBA).

EN 71-3:2019 - Migration of Certain Elements (Category III: Scrapped-off toy material)

Test Method : With reference to EN 71-3:2019, analysis was performed by ICP-OES.
Chromium (VI) was analyzed by IC-UV/LC-ICP-MS.

Test Item(s)	Limit	Unit	MDL	001	002	003
Soluble Aluminum (Al)	70000	mg/kg	50	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	130	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	10	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	4.9	ND	ND	ND
Soluble Organic Tin	12	mg/kg	-	ND	ND	ND
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.020	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	004	005	006
Soluble Aluminum (Al)	70000	mg/kg	50	ND	127	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND



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Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	10	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	4.9	ND	ND	ND
Soluble Organic Tin	12	mg/kg	-	ND	ND	ND
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.020	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	007
Soluble Aluminum (Al)	70000	mg/kg	50	ND
Soluble Arsenic (As)	47	mg/kg	10	ND
Soluble Boron (B)	15000	mg/kg	50	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND
Soluble Lead (Pb)	23	mg/kg	10	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND
Soluble Selenium (Se)	460	mg/kg	10	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND
Soluble Tin (Sn)	180000	mg/kg	4.9	ND
Soluble Organic Tin	12	mg/kg	-	ND
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.020	ND



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Notes :

- 1.Soluble Chromium (III)= Soluble Total Chromium- Soluble Chromium (VI)
2. Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019.

Entry 63 of Commission Regulation (EU) No 2015/628 amending Annex XVII to REACH Regulation (EC) No 1907/2006- Lead

Test Method : SGS In-house method (GZTC CHEM-TOP-004-01, with reference to US EPA Method 3052:1996), analysis was performed by ICP-OES.

Test Item(s)	Limit	Unit	MDL	001	002	003
Lead (Pb)	500	mg/kg	2	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	004	005	006
Lead (Pb)	500	mg/kg	2	ND	ND	ND

Test Item(s)	Limit	Unit	MDL	007
Lead (Pb)	500	mg/kg	2	ND

Entry 23 of Commission Regulation (EU) 2016/217 amending Annex XVII of REACH Regulation (EC) No 1907/2006 Cadmium and its compounds

Test Method : SGS In-house method (GZTC CHEM-TOP-004-01, with reference to US EPA Method 3052:1996), analysis was performed by ICP-OES.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001	002	003
Cadmium (Cd)	7440-43-9	0.01	%(w/w)	0.0005	ND	ND	ND
Comment					PASS	PASS	PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	004	005	006
Cadmium (Cd)	7440-43-9	0.01	%(w/w)	0.0005	ND	ND	ND
Comment					PASS	PASS	PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	007
Cadmium (Cd)	7440-43-9	0.01	%(w/w)	0.0005	ND
Comment					PASS



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Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)

Test Method : SGS In-House method - GZTC-R&D-TOP-318, Analyzed by Gas Chromatography - Mass Spectrometry (GC-MS), Gas Chromatography - Electro Capture Detector (GC-ECD), High Performance Liquid Chromatography - Diode Array Detector - Mass Spectrometry (HPLC-DAD-MS)

Test Item(s)	CAS NO.	Limit	Unit	MDL	001
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) I287-476-5	85535-84-8 and others	1500	mg/kg	50	ND
Comment					PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	002
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) I287-476-5	85535-84-8 and others	1500	mg/kg	50	ND
Comment					PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	003
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) I287-476-5	85535-84-8 and others	1500	mg/kg	50	ND
Comment					PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	004
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) I287-476-5	85535-84-8 and others	1500	mg/kg	50	ND
Comment					PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	005
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) I287-476-5	85535-84-8 and others	1500	mg/kg	50	ND
Comment					PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	006
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) I287-476-5	85535-84-8 and others	1500	mg/kg	50	ND
Comment					PASS

Test Item(s)	CAS NO.	Limit	Unit	MDL	007
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs) I287-476-5	85535-84-8 and others	1500	mg/kg	50	ND
Comment					PASS



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Entry 50 paragraph 5 to 8 of Commission Regulation (EU) 1272/2013 amending Annex XVII of REACH Regulation (EC) No 1907/2006- Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	1.0	mg/kg	0.1	ND

Test Item(s)	CAS NO.	Limit	Unit	MDL	002
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	1.0	mg/kg	0.1	ND

Test Item(s)	CAS NO.	Limit	Unit	MDL	003
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	1.0	mg/kg	0.1	ND

Test Item(s)	CAS NO.	Limit	Unit	MDL	004
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.1	0.1



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Test Report

No.: GZHL1908034854IP

Date: Aug 29, 2019

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Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.1	0.2
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	1.0	mg/kg	0.1	ND

Test Item(s)	CAS NO.	Limit	Unit	MDL	005
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	1.0	mg/kg	0.1	ND

Test Item(s)	CAS NO.	Limit	Unit	MDL	006
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	1.0	mg/kg	0.1	ND

Test Item(s)	CAS NO.	Limit	Unit	MDL	007
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	1.0	mg/kg	0.1	ND



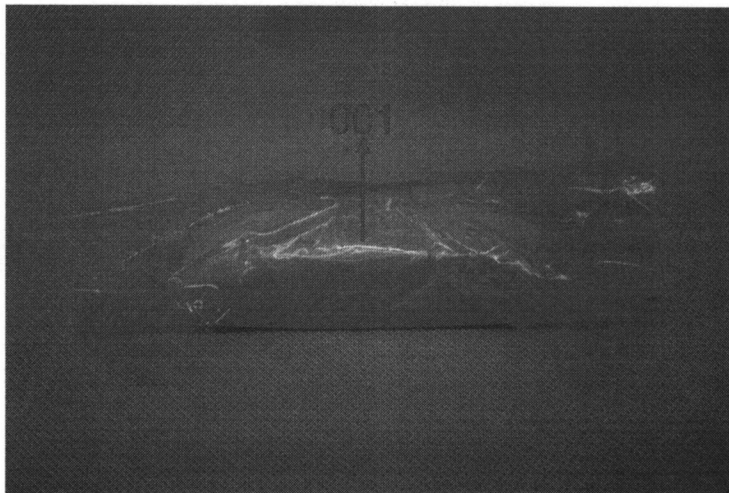
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Sample photo:

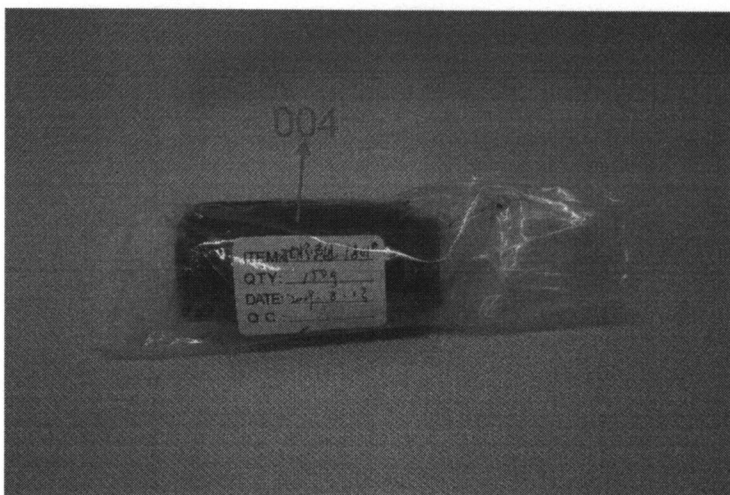


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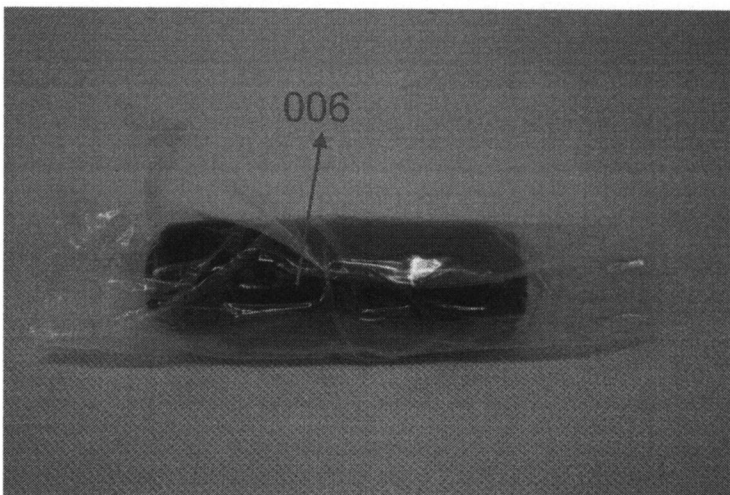


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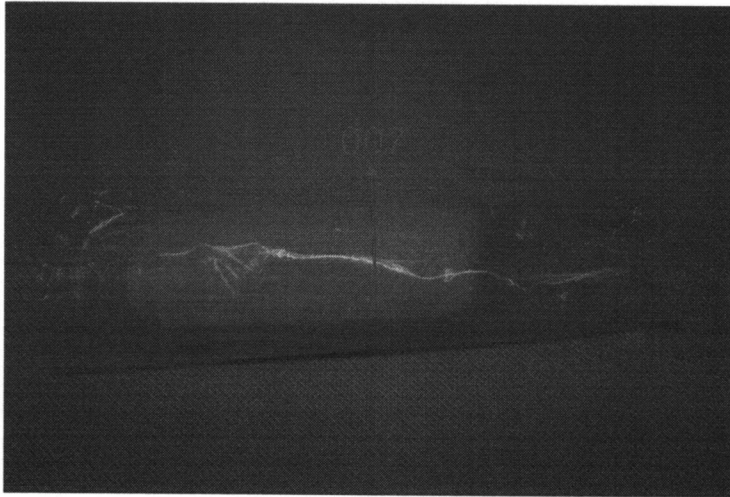


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End of Report



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