


**BUREAU  
VERITAS**

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RECEIPT 18/10/2019

TESTING DATES FROM 18/10/2019 TO 22/11/2019

**COMMITTENT**  
**TEXCENE S.P.A.**  
**VIA EUSTACCHIO CAPITANIO 9**  
**24040 CENE BG**

## LABORATORY REPORT n° 1937021 of 22/11/2019

**DENOMINATION** Analisi Commissione da: Nocenti Massimo  
 Articolo: water butt equalisation  
 DDT N. /

 Requisiti: BLUMINE NETWORK\_Detox Price List for  
 Textile/Leather/Plastic/Chemical Products\_V.1 extended list  
 Campionamento: a cura del committente

**Sample 01**

Test	Pass	Fail	Failure result
Alchylphenol and alchylphenol ethoxylates in wastewater - Internal Method: CPSD-AN-00556	X		
Short chain chlorinated paraffins in wastewater - Internal Method: CPSD-AN-00579	X		
Cr VI in wastewater - Internal Method: CPSD-AN-00582	X		
Phthalates in wastewater - Internal Method: CPSD-AN-00571	X		
Heavy metals in wastewater - Internal Method: CPSD-AN-00581		X	Total Lead [Pb] Content: 1,5 µg/l Total Antimonium [Sb] Content: 22,4 µg/l Total Arsenic [As] Content: 1,2 µg/l Total Nickel [Ni] Content: 4,2 µg/l Total Chromium [Cr] Content: 7,4 µg/l Antimony trioxide: 26,8 µg/l
Azodyes in wastewater - Internal Method: CPSD-AN-00574		X	Aniline: 0,847 µg/l
Organotin compounds in wastewater - Internal Method: CPSD-AN-00575	X		
Perfluorinated Compounds in wastewater - Internal Method: CPSD-AN-00580	X		
Chlorobenzenes in wastewater and Sludge - Internal Method: CPSD-AN-00576	X		
Chlorophenols in wastewater - Internal Method: CPSD-AN-00578	X		
Chlorinated solvents and VOCs in waste waters - Internal method: CPSD-AN-00577	X		
Michler's Ketone and Base - Inhouse Test Method: IOP 55: 2016 Rev00	X		
Glycol in waterwaters and sludge by GCMS Analysis Inhouse Mehod: CPSD-AN-00821	X		
Bisphenol A in waste waters - Internal Method: IOP 130	X		
PAH in wastewater - Internal Method: CPSD-AN-00576	X		
Nitrosamines in waste water - Test method CPSD AN 00839	X		
Determination of Epichlorohydrine in wastewater - Inhouse Method: IOP 164 Rev.00: 2019	X		

Continuing...

 Approved on behalf of BUREAU VERITAS CERTEST srl by:  
 Dr. Verena BARTALINI – Laboratory Manager


Analysis valid for all legal purposes (R.D. 1 march 1928 n.842)


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**Sample 01**

Test	Pass	Fail	Failure result
Determination of Acrylonitrile and 1,3 Butadiene in wastewater - Inhouse Method: IOP 165 Rev.00: 2019	X		
Determination of Ethyl acrylate in wastewater - Inhouse Method: IOP 166 Rev.00: 2019	X		
VCM in waste waters - Internal Method: IOP 130	X		
Determination of Acrylamide in wastewater - Inhouse Method: IOP 167 Rev.00: 2019	X		
Determination of formaldehyde free and hydrolized in waste waters - Internal Method: IOP 130	X		
Dyes in wastewater - Internal Method: CPSD-AN-00799	X		
Flame retardants in wastewater - Internal Method: CPSD-AN-00572 CPSD-AN-00573 CPSD-AN-00802	X		

Pass = Meets Buyer's requirements

Fail = Does not meet Buyer's requirements

-- = Buyer's requirements not defined

The values in brackets represent requirements stated in the document named in the "Requirements" field of the "Denomination" section

Continuing...

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Sample 1937021.01						
<b>Alchylphenol and alchylphenol ethoxylates in wastewater</b> - Internal Method: CPD-AN-00556 <u>Operating Conditions</u> - Detection by GC-MS and LC-MS	4-n- Nonylphenol (4-n-NP) (CAS N. 104-40-5) 4-n-Octylphenol (n-OP) (CAS N. 1806-26-4) 4-tert-Octylphenol (tert-4-OP) (CAS N. 140-66-9) Nonylphenol (NPs) (CAS N. 84852-15-3) tert-Octylphenol (tert-OP) (CAS N. 27193-28-8) Nonylphenoethoxylates (IGEPAL CO-630), (NPEOs) (CAS N. 68412-54-4) Octylphenoethoxylates (Triton X-100), (OPEOs 2-16) (CAS N. 9002-93-1)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.	<1 <1 <1 <1 <1 <1 <1	µg/l µg/l µg/l µg/l µg/l µg/l µg/l	1 1 1 1 1 1 1		Pass Pass Pass Pass Pass Pass Pass
<b>Short chain chlorinated paraffins in wastewater</b> - Internal Method: CPD-AN-00579 <u>Operating Conditions</u> - Detection by GC-MS	Amount of extracted SCCP (C10-C13) (CAS N.85535-84-8)	< L.O.Q.	<0,4	µg/l	0,4		Pass
<b>Cr VI in wastewater</b> - Internal Method: CPD-AN-00582 <u>Operating Conditions</u> - Detection by UV-Vis	Total Hexavalent Chromium (Cr-VI) Content	< L.O.Q.	<1,0	µg/l	1		Pass
<b>Phthalates in wastewater</b> - Internal Method: CPD-AN-00571 <u>Operating Conditions</u> - Solvent extraction - Determination by GC-MS analysis	<b>Phthalates (*)</b> 1,2-BenzeneDiCarboxylicAcid, DiHexylester, Branched and Linear (CAS N. 68515-50-4)	< L.O.Q.	<1,0	µg/l	1		Pass

Continuing...

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Bis (2-Methoxyethyl) Phthalate (DMEP) (CAS N.117-82-8)	< L.O.Q.	<1,0	µg/l	1		Pass
	Bis-2-Ethylhexyl Phthalate (DEHP) (CAS N. 117-81-7)	< L.O.Q.	<1,0	µg/l	1		Pass
	Butyl Benzil Phthalate (BBP) (CAS N. 85-68-7)	< L.O.Q.	<1,0	µg/l	1		Pass
	Di-cyclohexyl phthalate (DCHP) (CAS N.84-61-7)	< L.O.Q.	<1,0	µg/l	1		Pass
	Di-iso-decyl Phthalate (DIDP) (CAS N. 68515-49-1)	< L.O.Q.	<1,0	µg/l	1		Pass
	Di-iso-nonyl Phthalate (DINP) (CAS N. 68515-48-0)	< L.O.Q.	<1,0	µg/l	1		Pass
	Di-iso-octyl phthalate (DIOP) (CAS N. 27554-26-3)	< L.O.Q.	<1,0	µg/l	1		Pass
	Di-isobutyl Phthalate (DIBP) (CAS N. 84-69-5)	< L.O.Q.	<1,0	µg/l	1		Pass
	Di-isoheptyl Phthalate (DIHP) (CAS N. 71888-89-6)	< L.O.Q.	<1,0	µg/l	1		Pass
	Di-isopentyl Phthalate (DIPP) (CAS N. 605-50-5)	< L.O.Q.	<1,0	µg/l	1		Pass
	Di-n-hexyl Phthalate (DnHP) (CAS N. 84-75-3)	< L.O.Q.	<1,0	µg/l	1		Pass
	Di-n-octyl Phthalate (DnOP) (CAS N. 117-84-0)	< L.O.Q.	<1,0	µg/l	1		Pass
	Di-n-propyl phthalate (DPRP) (CAS N. 131-16-8)	< L.O.Q.	<1,0	µg/l	1		Pass
	Dibutyl Phthalate (DBP) (CAS N. 84-74-2)	< L.O.Q.	<1,0	µg/l	1		Pass
	Diethyl Phthalate (DEP) (CAS N. 84-66-2)	< L.O.Q.	<1,0	µg/l	1		Pass
	Diisohexyle phthalate (DIHxP) (CAS 71850-09-4)	< L.O.Q.	<1,0	µg/l	1		Pass
	Dinonyl phthalate (DNP) (CAS N. 84-76-4)	< L.O.Q.	<1,0	µg/l	1		Pass
	Dipentyl Phthalate (DPP) (CAS N. 131-18-0)	< L.O.Q.	<1,0	µg/l	1		Pass
	Diundecyl Phthalate (DHNUP) (CAS N. 68515-42-4)	< L.O.Q.	<1,0	µg/l	1		Pass
	N-pentyl-isopentyl phthalate (NPIPP) (CAS 776297-69-9)	< L.O.Q.	<1,0	µg/l	1		Pass
<b>Heavy metals in wastewater</b> - Internal Method: <b>CPSD-AN-00581</b> <u>Operating Conditions</u> - Detection by ICP-MS	<b>Heavy Metals</b>						
	Total Cadmium [Cd] Content	< L.O.Q.	<1,0	µg/l	1		Pass
	Total Lead [Pb] Content	1,5	<1,0	µg/l	1		Fail
	Total Mercury [Hg] Content	< L.O.Q.	<1,0	µg/l	1		Pass
	Total Antimony [Sb] Content	22,4	<1,0	µg/l	1		Fail
	Total Arsenic [As] Content	1,2	<1,0	µg/l	1		Fail

Continuing...

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	Total Cobalt [Co] Content	< L.O.Q.	<1,0	µg/l	1		Pass
	Total Nickel [Ni] Content	4,2	<1,0	µg/l	1		Fail
	Total Boron [B] Content	< L.O.Q.	<1,0	µg/l	1		Pass
	Total Chromium [Cr] Content	7,4	<1,0	µg/l	1		Fail
<b>Azodyes in wastewater</b> - Internal Method: <b>CPSD-AN-00574</b> <u>Operating Conditions</u> - Detection by GC-MS and confirmation by LC-MS	<b>Aromatic amines derived from azodyes</b>						
	4-Aminobiphenyl (CAS N 92-67-1)	< L.O.Q.	<0,1	µg/l	0,1	(1)	Pass
	Benzidine (CAS 92-87-5)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	4-Chloro-o-toluidine (CAS N. 95-69-2)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	2-Naphthylamine (CAS N. 91-59-8)	< L.O.Q.	<0,1	µg/l	0,1	(1)	Pass
	o-Aminoazotoluene (CAS 97-56-3)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	5-nitro-o-toluidine (CAS 99-55-8)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	4-Chloroaniline (CAS N. 106-47-8)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	4-methoxy-m-phenylenediamine (CAS 615-05-04)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	4,4'-methylenedianiline (CAS 101-77-9)	< L.O.Q.	<0,1	µg/l	0,1	MDA	Pass
	3,3'-Dichlorobenzidine (CAS N. 91-94-1)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	3,3'-Dimethoxybenzidine (CAS N. 119-90-4)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	3,3'-Dimethylbenzidine (CAS N. 119-93-7)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	4,4'-methylenedi-o-toluidine (CAS N. 838-88-0)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	p-cresidine (CAS 120-71-8)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	4,4'-Methylene-bis-(2-chloroaniline) (CAS N. 101-14-4)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	4,4'-Oxydianiline (CAS N 101-80-4)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	4,4'-Thiodianiline (CAS N. 139-65-1)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	o-Toluidine (CAS 95-53-4)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	4-methyl-m-phenylenediamine (CAS 95-80-7)	< L.O.Q.	<0,1	µg/l	0,1	TDA	Pass
	2,4,5-Trimethylaniline (CAS N. 137-17-7)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	o-anisidine (CAS 90-04-0)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	4-Aminoazobenzene (CAS N. 60-09-3)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	2,4- Xylidine (CAS 95-68-1)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	2,6-Xylidine (CAS N. 87-62-7)	< L.O.Q.	<0,1	µg/l	0,1		Pass
	Aniline (CAS 62-53-3)	0,847	<0,1	µg/l	0,1		Fail

Continuing...

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
<b>Organotin compounds in wastewater</b> - Internal Method: <b>CPSD-AN-00575</b> <u>Operating Conditions</u> - Detection by GC-MS	<b>Organotin compounds</b>						
	Dibutyl tin (DBT)	< L.O.Q.	<0,01	µg/l	0,01		Pass
	Dimethyltin (DMT)	< L.O.Q.	<0,01	µg/l	0,01		Pass
	Dioctyl tin (DOT)	< L.O.Q.	<0,01	µg/l	0,01		Pass
	Diphenyltin (DPT)	< L.O.Q.	<0,01	µg/l	0,01		Pass
	Methyl tin (MeT)	< L.O.Q.	<0,01	µg/l	0,01		Pass
	Monobutyl tin (MBT)	< L.O.Q.	<0,01	µg/l	0,01		Pass
	Monooctyl tin (MOT)	< L.O.Q.	<0,01	µg/l	0,01		Pass
	Phenyltin tin (TPhT)	< L.O.Q.	<0,01	µg/l	0,01		Pass
	Tetrabutyl tin (TeBT)	< L.O.Q.	<0,01	µg/l	0,01		Pass
	Tetraethyltin (TeET)	< L.O.Q.	<0,01	µg/l	0,01		Pass
	Tributyl tin (TBT)	< L.O.Q.	<0,01	µg/l	0,01		Pass
	Tricyclohexyltin (TCyHT)	< L.O.Q.	<0,01	µg/l	0,01		Pass
	Trimethyl tin (TMT)	< L.O.Q.	<0,01	µg/l	0,01		Pass
	Trioctyltin (TOT)	< L.O.Q.	<0,01	µg/l	0,01		Pass
	Triphenyltin (TPhT)	< L.O.Q.	<0,01	µg/l	0,01		Pass
	Tripropyltin (TPT)	< L.O.Q.	<0,01	µg/l	0,01		Pass
<b>Perfluorinated Compounds in wastewater</b> - Internal Method: <b>CPSD-AN-00580</b> <u>Operating Conditions</u> - Detection by GC-MS, LC-MS-MS	<b>Perfluorinated Chemicals (PFCs)</b>						
	1H,1H,2H,2H-perfluorooctylacrylate (6:2 FTA) (CAS N. 17527-29-6)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	1H,1H,2H,2H-perfluorodecylacrylate (8:2 FTA) (CAS N.27905-45-9)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	1H,1H,2H,2H-perfluorododecylacrylate (10:2 FTA) (CAS N.17741-60-5)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	1H,1H,2H,2H-Perfluorooctanesulphonic acid (1H,1H,2H,2H-PFOS) (CAS N 27619-97-2)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE) (CAS N.1691-99-2)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE) (CAS N. 24448-09-7)	< L.O.Q.	<0,5	µg/l	0,5		Pass

Continuing...

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	2H,2H,3H,3H-perfluoroundecanoic acid (H4PFUnA) (CAS N.34598-33-9)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	7H-dodecafluoroheptanoic acid (HPFHpA) (CAS N.1546-95-8)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	N-ethylperfluoro-1-octanesulfonamide (N- EtFOSA) (CAS N. 4151-50-2)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	N-methylperfluoro-1-octanesulfonamide (N-MeFOSA) (CAS N.31506-32-8)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Perfluoro-1- heptanesulfonic acid (PFHpS) (CAS N.375-92-8)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Perfluoro-3,7-dimethyloctanoic acid (PF-3,7-DMOA) (CAS N.172155-07-6)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Perfluoro-n-decanoic acid (PFDA) (CAS N.335-76-2)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Perfluoro-n-heptanoic acid (PFHpA) (CAS N.375-85-9)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Perfluoro-n-hexanoic acid (PFHxA) (CAS N. 307-24-4)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Perfluoro-n-nonanoic acid (PFNA) (CAS N. 375-95-1)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Perfluoro-n-octanoic acid (PFOA) (CAS N. 335-67-1)	< L.O.Q.	<0,01	µg/l	0,01		Pass
	Perfluorobutanesulfonic acid (PFBS) (CAS N.375-73-5)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Perfluorobutyric acid (PFBA) (CAS N.375-22-4)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Perfluorodecanesulfonic acid (PFDS) (CAS N.335-77-3)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Perfluorododecanoic acid (PFDoA) (CAS N.307-55-1)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Perfluorohexanesulfonic acid (PFHxS) (CAS N.355-46-4)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Perfluorooctane sulfonamide (PFOSA) (CAS N. 754-91-6)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Perfluorotetradecanoic acid (PFTeA) (CAS N.376-06-7)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Perfluorotridecanoic acid (PFTrA) (CAS N.72629-94-8)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Perfluoroundecanoic acid (PFUnA) (CAS N.2058-94-8)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Perfluoropentanoic acid (PFPA)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	2- Perfluorobutylethanol (4:2 FTOH) (CAS N.2043-47-2)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	2- Perfluorohexylethanol (6:2 FTOH) (CAS N.647-42-7)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	2-Perfluorodecylethanol (10:2 FTOH) (CAS N865-86-1)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	2-Perfluorooctylethanol (8:2 FTOH) (CAS N.678-39-7)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Perfluorooctane sulfonate and related compounds (PFOS)	< L.O.Q.	<0,01	µg/l	0,01		Pass

Continuing...

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
<b>Chlorobenzenes in wastewater and Sludge</b> - Internal Method: <b>CPSD-AN-00576</b> <u>Operating Conditions</u> - Detection by GC-MS	1,2-Dichlorobenzene (CAS N.95-50-1)	< L.O.Q.	<0,02	µg/l	0,02		Pass
	1,3-Dichlorobenzene (CAS N.541-73-1)	< L.O.Q.	<0,02	µg/l	0,02		Pass
	1,4-Dichlorobenzene (CAS N.106-46-7)	< L.O.Q.	<0,02	µg/l	0,02		Pass
	1,2,3-Trichlorobenzene (CAS N.87-61-6)	< L.O.Q.	<0,02	µg/l	0,02		Pass
	1,2,4 Trichlorobenzene (CAS N.120-82-1)	< L.O.Q.	<0,02	µg/l	0,02		Pass
	1,3,5-Trichlorobenzene (CAS N.108-70-3)	< L.O.Q.	<0,02	µg/l	0,02		Pass
	1,2,3,4-Tetrachlorobenzene (CAS N.634-66-2)	< L.O.Q.	<0,02	µg/l	0,02		Pass
	1,2,3,5-Tetrachlorobenzene (CAS N.634-90-2), 1,2,4,5-Tetrachlorobenzene (CAS N.95-94-3)	< L.O.Q.	<0,02	µg/l	0,02		Pass
	Pentachlorobenzene (CAS N.608-93-5)	< L.O.Q.	<0,02	µg/l	0,02		Pass
	Hexachlorobenzene (CAS N.118-74-1)	< L.O.Q.	<0,02	µg/l	0,02		Pass
	Chlorobenzene (CAS N.108-90-7)	< L.O.Q.	<0,02	µg/l	0,02		Pass
	a,a-Dichlorotoluene (CAS N.98-87-3)	< L.O.Q.	<0,02	µg/l	0,02		Pass
	alpha, alpha, alpha 4-tetrachlorotoluene (CAS N.5216-25-1)	< L.O.Q.	<0,02	µg/l	0,02		Pass
	Benzotrìchloride (CAS N.98-07-7)	< L.O.Q.	<0,02	µg/l	0,02		Pass
	Benzyl chloride (CAS 100-44-7)	< L.O.Q.	<0,02	µg/l	0,02		Pass
<b>Chlorophenols in wastewater</b> - Internal Method: <b>CPSD-AN-00578</b> <u>Operating Conditions</u> - Detection by GC-MS	Pentachlorophenol (PCP) (CAS N. 87-86-5)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	2,4,6-TriChlorophenol (2,4,6-TCP) (CAS N. 88-06-2)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	3,4,5-TriChlorophenol (3,4,5-TCP) & 2,3,4-TriChlorophenol (2,3,4-TCP) (CAS N.609-19-8 & 15950-66-0)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	2,3,5-TriChlorophenol (2,3,5-TCP) (CAS N. 933-78-8)	< L.O.Q.	<0,5	µg/l	0,5		Pass

Continuing...

 Approved on behalf of BUREAU VERITAS CERTEST srl by:  
 Dr. Verena BARTALINI – Laboratory Manager


Analysis valid for all legal purposes (R.D. 1 march 1928 n.842)




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**COMMITTENT  
TEXCENE S.P.A.  
VIA EUSTACCHIO CAPITANIO 9  
24040 CENE BG**
**LABORATORY REPORT n° 1937021 of 22/11/2019**

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	2,3,6-TriChlorophenol (2,3,6-TCP) (CAS N. 933-75-5) & 2,4,5-TriChlorophenol (2,4,5-TCP) (CAS N95-95-4)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	2,3,5,6-TetraChlorophenol (2,3,5,6-TeCP) (CAS N. 935-95-5)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	2,3,4,6-TetraChlorophenol (2,3,4,6-TeCP) (CAS N. 58-90-2)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	2,3,4,5-TetraChlorophenol (2,3,4,5-TeCP) (CAS N. 4901-51-3)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	2,3- Dichlorophenol (CAS N.576-24-9)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	3,4- Dichlorophenol (CAS N.95-77-2)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	2,5-DiChlorophenol (2,5-DiCP) & 2,4-DiChlorophenol (2,4-DiCP) & 2,6-DiChlorophenol (2,6-DiCP) & 3,5 DiChlorophenol (3,5-DiCP) (CAS N.583-78-8 & CAS N. 120-83-2 & CAS N. 87-65-0 & CAS N.591-35-5)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	2- Mono Chlorophenol (2-MoCP) (CAS N.95-57-8)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	3- Mono Chlorophenol (3-MoCP) (CAS N.108-43-0)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	4- Mono Chlorophenol (4-MoCP) (CAS N.106-48-9)	< L.O.Q.	<0,5	µg/l	0,5		Pass
Chlorinated solvents and VOCs in waste waters - Internal method: CPSD-AN-00577 <u>Operating Conditions</u> - Head space GC-MS	<b>Chlorinated Solvents</b> Dichloromethane (CAS N.75-09-2) Chloroform (CAS N. 67-66-3) Tetrachloromethane (CAS N. 56-23-5) 1,1,2-Trichloroethane (CAS 79-00-5) 1,1-Dichloroethane (CAS N. 75-34-3) 1,2-Dichloroethane (CAS N. 107-06-2) Trichloroethylene (CAS N. 79-01-6) Perchloroethylene (CAS N.127-18-4) 1,1,1-Trichloroethane (CAS N.71-55-6) 1,1,1,2-Tetrachloroethane (CAS N. 630-20-6) 1,1,2,2-Tetrachloroethane (CAS N. 79-34-5) Pentachloroethane (CAS N.76-01-7) 1,1-Dichloroethylene (CAS N. 75-35-4)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.	<1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1 <1	µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass

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 Approved on behalf of BUREAU VERITAS CERTEST srl by:  
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Analysis valid for all legal purposes (R.D. 1 march 1928 n.842)


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TEXCENE S.P.A.  
VIA EUSTACCHIO CAPITANIO 9  
24040 CENE BG**
**LABORATORY REPORT n° 1937021 of 22/11/2019**

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	1,2,3-Trichloropropane (CAS N96-18-4)	< L.O.Q.	<1	µg/l	1		Pass
	1,2-Dibromoethane (CAS 106-93-4)	< L.O.Q.	<1	µg/l	1		Pass
	1-bromopropane n-propyl bromide (CAS 106-94-5)	< L.O.Q.	<1	µg/l	1		Pass
	2,4-dinitrotoluene (CAS 121-14-2)	< L.O.Q.	<1	µg/l	1		Pass
<b>Michler's Ketone and Base</b> - Inhouse Test Method: <b>IOP 55: 2016 Rev00</b> <u>Operating Conditions</u> - Solvent extraction - Determination by LC-MS DAD analysis	<b>Michler's Ketone (CAS90-94-8)</b> <b>Michler's Base (CAS101-61-1)</b>	< L.O.Q. < L.O.Q.	<50 <50	µg/l µg/l	50 50		Pass Pass
<b>Glycol in watewaters and sludge</b> by GCMS Analysis Inhouse Mehod: <b>CPSD-AN-00821</b>	<b>Glycols</b> Ethylene glycol (CAS N. 107-21-1) Ethylene glycol monomethyl ether (CAS N. 109-86-4) Ethylene glycol monomethyl ether acetate; 2-Methoxyethyl acetate (CAS N. 110-49-6) 1,2-dimethoxyethane; ethylene glycol dimethyl ether; EGDME (CAS N. 110-71-4) Ethylene glycol monoethyl ester (CAS N. 110-80-5) 2-ethoxyethylacetate (CAS N. 111-15-9) Bis-(2-methoxyethyl) ether (CAS N. 111-96-6) Glycol; triglyme (TEGDME) (CAS N. 112-49-2) 1,2-Diethoxyethane (CAS 629-14-1) 2-methoxypropyl acetate (CAS 70657-70-4)	< L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q. < L.O.Q.	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/l	5 5 5 5 5 5 5 5 5 5 5		Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass Pass
<b>Chlorinated solvents and VOCs</b> in waste waters - Internal method: <b>CPSD-AN-00577</b> <u>Operating Conditions</u> - Head space GC-MS	<b>VOCs</b> Benzene (CAS 71-43-2) Ethylbenzene (CAS 100-41-4)	< L.O.Q. < L.O.Q.	<20 <20	µg/l µg/l	20 20		Pass Pass

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VIA EUSTACCHIO CAPITANIO 9  
24040 CENE BG**
**LABORATORY REPORT n° 1937021 of 22/11/2019**

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	N-Nitrosodi-n-butylamine (NDBA) (CAS N. 924-16-3)	< L.O.Q.	<10	µg/l	10		Pass
	N-Nitrosopiperidine (NPIP) (CAS N. 100-75-4)	< L.O.Q.	<10	µg/l	10		Pass
	N-Nitrosomethylethylamine (CAS N. 10595-95-6)	< L.O.Q.	<10	µg/l	10		Pass
	N-nitroso-N-ethyl-N-phenylamine (NEPhA); N-Ethyl-N-nitrosoanilin (CAS N. 612-64-6)	< L.O.Q.	<10	µg/l	10		Pass
	N-Nitrosodimethylamine (NDMA) (CAS N. 62-75-9)	< L.O.Q.	<10	µg/l	10		Pass
	N-Nitrosodi-n-propylamine (NDPA) (CAS N. 621-64-7)	< L.O.Q.	<10	µg/l	10		Pass
	N-Nitrosopyrrolidine (NPYR) (CAS N. 930-55-2)	< L.O.Q.	<10	µg/l	10		Pass
	p-Nitrosodiphenylamine (CAS N. 156-10-5)	< L.O.Q.	<10	µg/l	10		Pass
	N-Nitrosodiphenylamine (CAS N. 86-30-6)	< L.O.Q.	<10	µg/l	10		Pass
	N-Methyl-N'-nitro-N-nitrosoguanidine (CAS 70-25-7)	< L.O.Q.	<10	µg/l	10		Pass
<b>Determination of Epichlorohydrine in wastewater</b> - Inhouse Method: <b>IOP 164 Rev.00: 2019</b> <u>Operating Conditions</u> - LC-MS analysis (L1)	<b>Epichlorohydrin (CAS N. 106-89-8)</b>	< L.O.Q.	<0,1	µg/l	0,1		Pass
<b>Determination of Acrylonitrile and 1,3 Butadiene in wastewater</b> - Inhouse Method: <b>IOP 165 Rev.00: 2019</b> <u>Operating Conditions</u> - LC-MS analysis (L1)	<b>1,3-Butadiene (CAS N. 106-99-0)</b> <b>Acrylonitrile (CAS N. 107-13-1)</b>	< L.O.Q. < L.O.Q.	<0,01 <0,01	µg/l µg/l	0,01 0,01		Pass Pass
<b>Determination of Ethyl acrylate in wastewater</b> - Inhouse Method: <b>IOP 166 Rev.00: 2019</b> <u>Operating Conditions</u> - LC-MS analysis (L1)	<b>Ethyl acrylate (CAS N. 140-88-5)</b>	< L.O.Q.	<0,1	µg/l	0,1		Pass

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VIA EUSTACCHIO CAPITANIO 9  
24040 CENE BG**
**LABORATORY REPORT n° 1937021 of 22/11/2019**

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Disperse Blue 1 (CAS N. 2475-45-8)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Blue 102 (CAS N. 12222-97-8)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Blue 106 (CAS N. 12223-01-7)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Blue 124 (CAS N. 61951-51-7)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Blue 26 (CAS N. 3860-63-7)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Blue 3 (CAS N. 2475-46-9)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Blue 35 (CAS N. 12222-75-2)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Brown 1 (CAS N. 23355-64-8)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Orange 1 (CAS N. 2581-69-3)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Orange 11 (CAS N. 82-28-0)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Orange 149 (CAS N. 151126-94-2)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Orange 3 (CAS N. 730-40-5)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Orange 37/59/76 (CAS N. 13301-61-6)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Red 1 (CAS N. 2872-52-8)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Red 11 (CAS N. 2872-48-2)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Red 17 (CAS N. 3179-89-3)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Yellow 1 (CAS N. 119-15-3)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Yellow 23 (CAS N. 6250-23-3)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Yellow 3 (CAS N. 2832-40-8)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Yellow 49 (CAS N. 54824-37-2)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Yellow 9 (CAS N. 6373-73-5)	< L.O.Q.	<15	µg/l	15		Pass
	Solvent Yellow 1 (CAS N. 60-09-3)	< L.O.Q.	<15	µg/l	15		Pass
	Solvent Yellow 14 (CAS N. 842-07-9)	< L.O.Q.	<15	µg/l	15		Pass
	Solvent Yellow 2 (CAS N. 60-11-7)	< L.O.Q.	<15	µg/l	15		Pass
	Solvent Yellow 3 (CAS N. 97-56-3)	< L.O.Q.	<15	µg/l	15		Pass
	Direct Blue 6 (CAS N. 2602-46-2)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Blue 7 (CAS N. 3179-90-6)	< L.O.Q.	<15	µg/l	15		Pass
	Disperse Yellow 39 (CAS N. 12236-29-2)	< L.O.Q.	<15	µg/l	15		Pass

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TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
<b>Heavy metals in wastewater</b> - Internal Method: <b>CPSD-AN-00581</b> <u>Operating Conditions</u> - Detection by ICP-MS	<b>Other (theoretical) Flame retardants calculated by stoichiometry on total metal content</b> All Borium Coumpounds expressed as total B Boron trioxide Sodium tetraborate Orthoboric acid, sodium salt Sodium perborate Sodium Perborate Monohydrate Sodium Perborate Tetrahydrate Sodium perborate trihydrate Sodium tetraborate Sodium tetraborate decahydrate Sodium tetraborate pentahydrate Boric acid Antimony trioxide	< L.O.Q.	<1,0	µg/l	1		Pass
		< L.O.Q.	<1,0	µg/l	1		Pass
		< L.O.Q.	<1,0	µg/l	1		Pass
		< L.O.Q.	<1,0	µg/l	1		Pass
		< L.O.Q.	<1,0	µg/l	1		Pass
		< L.O.Q.	<1,0	µg/l	1		Pass
		< L.O.Q.	<1,0	µg/l	1		Pass
		< L.O.Q.	<1,0	µg/l	1		Pass
		< L.O.Q.	<1,0	µg/l	1		Pass
		< L.O.Q.	<1,0	µg/l	1		Pass
		< L.O.Q.	<1,0	µg/l	1		Pass
		< L.O.Q.	<1,0	µg/l	1		Pass
		< L.O.Q.	<1,0	µg/l	1		Pass
		< L.O.Q.	<1,0	µg/l	1		Pass
< L.O.Q.	<1,0	µg/l	1		Pass		
<b>Flame retardants in wastewater</b> - Internal Method: <b>CPSD-AN-00572</b> <b>CPSD-AN-00573</b> <b>CPSD-AN-00802</b> <u>Operating Conditions</u> - Detection by GC-MS and LC-MS	<b>Flame retardants</b> Tetrabromo biphenyls (TetraBB) Pentabromo biphenyls (PentaBB) Hexabromo biphenyls (HexaBB) Heptabromo biphenyls (HeptaBB) Octabromo biphenyls (OctaBB) Nonabromo biphenyls (NonaBB) Decabromo biphenyl (DecaBB) Monobromo diphenyl ethers (MonoBDE) Dibromo diphenyl ethers (DiBDE) Tribromo diphenyl ethers (TriBDE) Tetra-bromodiphenyl ether (TetraBDE) Penta-bromodiphenyl ether (PentaBDE)	26,8	<1,0	µg/l	1		Fail
		< L.O.Q.	<0,5	µg/l	0,5		Pass
		< L.O.Q.	<0,5	µg/l	0,5		Pass
		< L.O.Q.	<0,5	µg/l	0,5		Pass
		< L.O.Q.	<0,5	µg/l	0,5		Pass
		< L.O.Q.	<0,5	µg/l	0,5		Pass
		< L.O.Q.	<0,5	µg/l	0,5		Pass
		< L.O.Q.	<0,5	µg/l	0,5		Pass
		< L.O.Q.	<0,5	µg/l	0,5		Pass
		< L.O.Q.	<0,5	µg/l	0,5		Pass
		< L.O.Q.	<0,5	µg/l	0,5		Pass
		< L.O.Q.	<0,5	µg/l	0,5		Pass
		< L.O.Q.	<0,5	µg/l	0,5		Pass
		< L.O.Q.	<0,5	µg/l	0,5		Pass

Continuing...

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VIA EUSTACCHIO CAPITANIO 9  
24040 CENE BG**
**LABORATORY REPORT n° 1937021 of 22/11/2019**

TEST METHOD	PARAMETER	RESULT	LIMITS	U.M.	L.O.Q.	NOTES	ASSESS.
	Hexabromo diphenyl ethers (HexaBDE)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Heptabromo diphenyl ethers (HeptaBDE)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Octa-bromodiphenyl ether (OctaBDE)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Nonabromo diphenyl ethers (NonaBDE)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Decabromodiphenyl ether (DecaBDE)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Tris (2,3-dibromopropyl)-phosphate (TRIS)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Exabromocyclododecane (HBCDD)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	<b>Flame retardants</b>						
	Monobromo biphenyl (MonoBB)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Dibromo biphenyls (DiBB)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Tribromo biphenyl (TriBB)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Tris(2-chloroethyl)phosphate (TCEP)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Tetrabromo-bisphenol A (TBBPA)	< L.O.Q.	<5,0	µg/l	5		Pass
	Tris (1-aziridinyl)-phosphine oxide (TEPA)	< L.O.Q.	<0,5	µg/l	0,5		Pass
	Tri-o-cresyl phosphate	< L.O.Q.	<0,5	µg/l	0,5		Pass

**Notes**

< L.O.Q.: Not detectable analytically

(1) = If the use of this analytical method has detected 4-aminodiphenyl and/or 2-naphthylamine, according to the current state of knowledge it cannot be unequivocally confirmed without additional information that azo colorants which release amines were used.

MDA =

In case of polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) are released from the PU component and not from a banned azo colorant.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

TDA = In case of polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 2,4-toluen-diamine (TDA, CAS 95-80-7) are released from the PU component and not from a banned azo colorant.

In case of non-indication from the client of the category of the material to be tested, the laboratory will identify it and will test it according to the specifics of the defined category.

\* The assessment is obtained by the comparison between the Result of the analysis ("Result" column) and the required Limit ("Limit" column).

Limits: Values indicated in the Limits column refer to the requirements stated in the document named in the "Requirements" field of the "Denomination" section

U.M.: Units of Measurement

L.O.Q.: Limit of Quantification

Assess.: Assessment

Pass: the test result is conform to the standard required

Fail: the test result is not conform to the standard required

N/A: it is not possible to carry out the test, or the test result can not be defined as "Pass" or "Fail"

The evaluations of change in color are carried out in accordance with ISO 105-A02 (or GB/T 250 for Chinese market methods), the evaluations of color staining are carried out in accordance with ISO 105-A03 (or GB/T 251 for Chinese market methods).

BWS: Blue Wool Scale

GSR: Grey Scale Rating

L1: test executed at Bureau Veritas Certest srl Laboratory Via Risorgimento, 16- 56028 San Miniato (Pisa)- Italy

L2: test executed at Bureau Veritas Certest srl Laboratory Via f.lli Rosselli, 6- 56028 San Miniato (Pisa)- Italy

Continuing...

Approved on behalf of BUREAU VERITAS CERTEST srl by:  
Dr. Verena BARTALINI – Laboratory Manager



Analysis valid for all legal purposes (R.D. 1 march 1928 n.842)



**BUREAU  
VERITAS**

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RECEIPT 18/10/2019

TESTING DATES FROM 18/10/2019 TO 22/11/2019

COMMITTENT  
**TEXCENE S.P.A.**  
**VIA EUSTACCHIO CAPITANIO 9**  
**24040 CENE BG**

## LABORATORY REPORT n° 1937021 of 22/11/2019

This report has been issued by Bureau Veritas Certest s.r.l. quality system and well documented by our own quality manual and related procedures. Results reported have been achieved applying rules and/or technical procedures specified in the following pages and they refer solely to the samples received and tested in our laboratory not to the batch which they represent. The sample has been analyzed the way it has been received from the client. Reproduction of this document is allowed only with an exact copy of the original. Partial reproduction of this documents allowed subject to Bureau Veritas Certest s.r.l. approval and is registered with the referring report number. Only the original report is valid and partial reproduction of this document is allowed subject to Bureau Veritas Certest s.r.l. approval and is registered with the referring report number. The use of this report in a judicial process must be expressly authorized by Certest srl. The records related to the analyzes carried out are retained for a period of 48 months. Samples tested are stored for three months if not otherwise required or agreed with the Client. The expanded uncertainty (U) is calculated with a coverage factor k=2 for a confidence level of 95% and a number of degrees of freedom greater than or equal to 10. In case of qualitative tests, the expanded uncertainty (U) is not applicable, so the reference column will be populated with "N/A".

Whenever the supplied sample amount is not enough to perform all the trials required by the Method, the laboratory will perform the higher number of tests with the provided material.

Decision rule: For analyses subjected to visual assessment and colour fastness tests the Laboratory defines the Pass/Fail not taking into account the uncertainty associated to the measurement result. The uncertainty associated to the test Method is available upon specific request of the Client.

For all other analyses, where the decision rule is not defined within the test method, the result is assessed as a Fail whenever it overcomes the LV (Limit Value) beyond a reasonable doubt, also taking into account the expanded uncertainty (U), calculated at a confidence level of 95% applying the Guard Band defined as the quantity "g" obtained from  $g=k \cdot \text{UrdP}$

UrdP=standard uncertainty of the measurement result.

k=coverage factor with a confidence level of 95%. unilateral type equal to 1,645.

Information shown in the "Denomination" field, related to the sample description, are reported as provided by the Client within the Test Request Form.

Copy of digitally signed file

Approved on behalf of BUREAU VERITAS CERTEST srl by:  
Dr. Verena BARTALINI – Laboratory Manager



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