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SOLMETEX INC.
Date: November 12, 2007
P.O. No.: 7169

Project No.: 3137365
Report No.: 07-1023-145559
Page 1 of 7

Test Report For:

Solmetex

**ISO 11143:1999(E) Efficiency Evaluation
of the
Solmetex Hg5® Amalgam Separator**

Greg Marshall, MSME
Chief Engineer/Test Engineer

William T. Fiske, P.E.
Reviewer

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

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Attention: Mr. Ed Morassi
SOLMETEX
50 Bearfoot Road
Northborough, MA. 01532
Phone: (508) 393-5115
E-Mail: emorassi@solmetex.com

DATE RECEIVED: 10/29/07
DATE TESTED: 10/29/07 to 11/03/07

DESCRIPTION OF SAMPLES:

Part Number/Description: SolmeteX Hg5® Amalgam Separator

Material Submitted: One (1) complete empty unit comprised of the
P/N - HG5-001 Type 2 Amalgam Separator and
P/N - HG5-002 Collection Container (removable
component)

Material Specification/Objective: ISO 11143:1999(E) and
ISO 11143:1999/Cor.1:2002(E)
Dental equipment – Amalgam separators

Condition of Test Sample: Production unit

WORK REQUESTED / APPLICABLE DOCUMENTS:

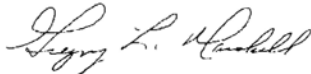
Efficiency (η) Evaluation: ISO 11143:1999(E) and ISO 11143:1999/Cor.1:2002(E)

CONCLUSION:

The SolmeteX Hg5® Amalgam Separator provided an **Efficiency (η) value of 99.02%** when tested in accordance with ISO 11143:1999(E) and ISO 11143:1999/Cor.1:2002(E).

This meets the ISO 11143:1999(E) and ISO 11143:1999/Cor.1:2002(E) requirement of an efficiency of at least 95%.

TEST REPORT (Reference ISO 11143:1999(E) Section 10):

ISO 11143:1999(E) Section 10	Results or Response
a) designation of the amalgam separator	SolmeteX Hg5® Amalgam Separator Tested Unit : P/N-HG5-001 Separator, S/N HG5-K-18034 with P/N-HG5-002 Collection Container, S/N SC-MBX-K-57578
b) name and/or trademark of the manufacturer of the amalgam separator	SolmeteX™
c) type classification	Type 2
d) reference to this International Standard	ISO 11143:1999(E) and ISO 11143:1999/Cor.1:2002(E)
e) particle size distribution used, including a particle size distribution curve	Reference Appendix 1 Becker Messtechnik
f) lot number of amalgam sample	12/06 – reference Appendix 1 Production date 12.12.2006 Becker Messtechnik
g) maximum water flowrate used during the test	1,000 ml/min.
h) type of membrane filters used during the test	Reference Appendix 2
i) number of tests performed	Three (3) Empty and Three (3) Full
j) separation degree of empty and full amalgam separator	Efficiency Empty (η_1) = 99.15 Efficiency Full (η_2) = 99.02
k) value of the efficiency	Efficiency (η) = 99.02
l) result obtained (pass/fail)	Pass
m) all operations not specified in this International Standard	Not Applicable
n) details of any occurrence which may have affected the test result	The membrane filters were observed to capture contaminants that were clearly not amalgam as observed at 20X to 30X magnification, but were included in the weighing since physical separation was not readily feasible. This effectively reduces the efficiency value
o) name of investigator	Greg Marshall, MSME
p) date of investigation	10/29/07 thru 11/03/07
q) signature of investigator	

Appendix 1

**Manufacturer Certificate for Charge 12/06 Amalgam Samples
 Production Date of 10 gram Charges of 12.12.2006
 X-Ray Test 31.10.2006**



Manufacturer Certificate for samples according ISO 11143

Production date:	12.12.2006	ISO 11143
		(50) amalgam sample
Customer:	Solmetex	Fraction 1: 500 - 3150 µm
		Fraction 2: 100 - 500 µm
		Fraction 3: < 100 µm
Sedigramm chart date:	31.10.2006	
Delivery date:	05.06.2007	

Fraction 1:	500 - 3150 µm	5g ± 3mg
Fraction 2:	100 - 500 µm	1g ± 2mg
Fraction 3:	< 100 µm	1g ± 2mg
Total:		10g ± 3mg

Probe No.	Anteil (%)			
	Fraction 1	Fraction 2	Fraction 3	Total
1	6.000	1.005	3.000	10.005
2	6.003	1.000	3.000	10.003
3	6.002	1.000	3.000	10.002
4	6.002	1.002	3.000	10.004
5	6.002	1.000	3.000	10.002
6	6.002	1.001	3.000	10.003
7	6.001	1.001	2.998	10.000
8	6.000	1.002	2.999	10.001
9	6.002	1.000	3.002	10.004
10	6.002	1.001	3.000	10.003
11	6.000	1.001	3.003	10.004
12	6.000	1.002	3.000	10.002

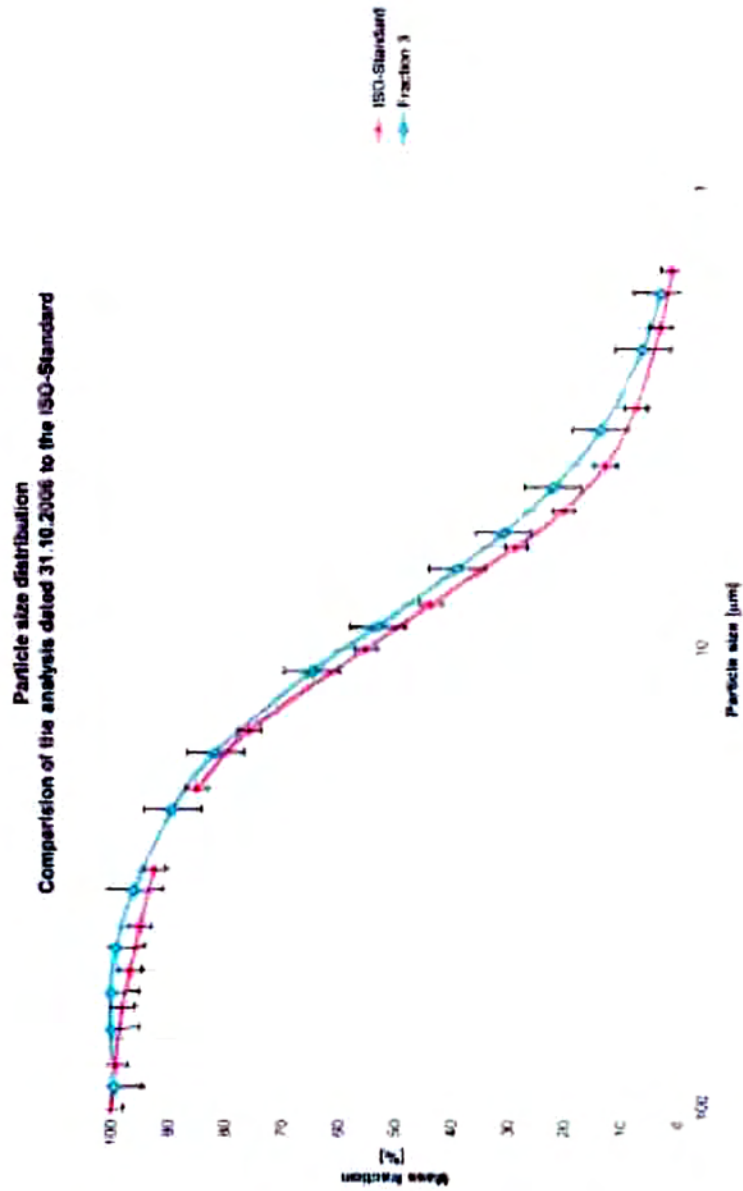
Attachments: Particle size distribution for d < 100µm
 Report of the x-ray sedigraphics test on 31.10.2006

Stamp/Signature



Appendix 1 (continued)

Manufacturer Certificate for Charge 12/06 Amalgam Samples
X-Ray Test 31.10.2006



Appendix 2

Description of Membrane Filters Used During the Test

Membrane Pore Size	Membrane Description
12.0 Micron	90 mm Polycarbonate GE Water & Process Technologies Catalog No. K12CP09030 Material No. 1239192 Batch No. 144853
3.0 Micron	90 mm Polycarbonate GE Water & Process Technologies Catalog No. K30CP09030 Material No. 1222074 Batch No. 144850
1.2 Micron	90 mm Cellulosic GE Water & Process Technologies Catalog No. E12WP09025 Material No. 1215442 Batch No. 144211



TERMS AND CONDITIONS

1.0 INTRODUCTION

These Terms and Conditions are incorporated into the Intertek proposal made and submitted to you. The party executing this document ("Client") indicates acceptance of this proposal and that it is agreed that a resulting contract exists between Client and Intertek which governs the performance of the stated services and the rights and obligations of the parties and that Intertek may proceed with the work.

2.0 PROPOSAL TERM

Unless otherwise stated in the proposal, this offer shall remain valid until accepted, but in no event for a period longer than thirty days from the date of the proposal.

3.0 CLIENT INFORMATION

Client represents that the information supplied by it or its agents to Intertek is accurate and complete and samples are representative, and Client has informed Intertek concerning any dangerous or potentially dangerous characteristics of such samples which could cause injury during the performance of the work or in the transporting of such samples and Client also acknowledges that Intertek is relying upon such information and samples or data in the preparation of this proposal without further verification by Intertek as to its accuracy or completeness. The Client agrees to hold Intertek harmless and indemnify Intertek from any liability of whatever kind or nature, including but not limited to court costs and reasonable attorneys fees if information provided by the Client is inaccurate or incomplete or samples are not representative. Intertek agrees that information received from the Client shall remain the property of the Client and will be returned to the Client upon demand, except for that which is necessary as a basis for the Intertek Reports. Client may designate in writing any information provided by Client to Intertek as confidential and proprietary. If Client has done so, Intertek will not release to third parties any such information without the prior written consent of the Client or only in response to a proper court order or process. As to that information, Intertek may make and retain copies. Client shall designate in writing to Intertek if it does not wish to have Intertek transmit any information, including test data and Reports, via fax or electronic means.

4.0 PROPOSAL, PRICE AND SCHEDULE

Intertek will work diligently to provide the services according to the costs and schedule stated in the referenced proposal. Client recognizes and agrees that the proposal is a good faith estimate of the costs for the services to be provided and times of completion, but such estimate is not a guarantee of the total costs or time that may be involved in completing the proposal. Intertek will not exceed the authorized estimate of costs without written authorization of Client. Samples will be shipped by Client to Intertek prepaid and will be returned collect or disposed of at Client's expense within thirty (30) days after testing is completed, unless alternative arrangements are made by Client. Additional fees will be charged for unanticipated assembly or preparation of samples. Test services will not be initiated until satisfactory credit has been established with Intertek's accounting department.

5.0 INVOICING

Invoices will generally be issued upon project completion. In certain instances, interim invoices may be issued. Invoices are due and payable to Intertek at its offices, within thirty (30) calendar days after receipt of invoice, and client agrees to pay reasonable collection costs if necessary in the event of non-payment.

6.0 INSURANCE

Intertek declares that it maintains workers' compensation and employer's liability insurance on Intertek employees in a form and amount as required by applicable laws. This insurance does not cover any employees of Client or third parties who may be involved with the work to be performed, whether on property of Intertek, Client or third parties.

7.0 REPORTS

The Client agrees to waive any claim against Intertek and defend, indemnify, and hold Intertek harmless from any and all causes of action, lawsuit, proceedings or claims, including legal fees and expenses incurred by Intertek, allegedly arising as a result of unauthorized use of Intertek's Reports. The Reports include all reports, laboratory test data, calculations, estimates, notes and other documents prepared by Intertek in the course of providing services to the Client. Reports will be made utilizing Intertek's standard format unless otherwise agreed to in writing. The Client agrees to indemnify Intertek for any breach by the Client arising out of clause 3.0 (Client Information) above requiring accurate and complete information and representative samples. Intertek retains any and all rights of ownership of Intertek's concepts, ideas, inventions, patents or copyrights used by Intertek in preparing Intertek's Reports and the provision of services to the Client. Only the client is authorized to copy or distribute this report and then only in its entirety, and the Client shall not use the Reports in a misleading manner. Client further agrees and understands that reliance upon the Reports is limited to the representations made therein. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. If Intertek becomes directly or indirectly involved in litigation as a result of misuse of its Reports, the Client agrees to compensate Intertek for its fees and expenses, including legal costs, in accordance with Intertek's prevailing fee schedule and expense reimbursement policy.

8.0 LIMITED WARRANTY

Intertek warrants that if any of its completed services fail to conform to professional standard, Intertek will, at its own expense, perform corrective services of the type originally performed as may be reasonably required to correct such defects, of which Intertek is notified in writing within six months of the completion of services. No other representation, express or implied, and no warranty or guarantee is included or intended in this Agreement, or in any report, opinion, document or otherwise.

9.0 LIMITS OF LIABILITY

Intertek's liability is limited as follows:

9.1 The Client agrees to limit Intertek's liability arising from Intertek's professional activity, errors, or omissions, such that the total aggregate liability of Intertek shall not exceed Intertek's total fee for the services rendered on the project in question, except in the case of a finding of gross negligence or willful misconduct on the part of Intertek by a court of competent jurisdiction.

9.2 Intertek shall be discharged from all liability to the Client for all claims for loss, damage or expense unless a claim is made within three (3) months of the date at which the damage, defect or alleged non-performance became apparent to the Client, and the process of law served no later than two (2) years from the provision of services by Intertek.

9.3 Intertek shall not be liable to the Client for any consequential damages incurred by Client due to the fault of Intertek, regardless of the nature of this fault, whether it was committed by Intertek, its employees, agents or subcontractors. Consequential damages include, but are not limited to, loss of use and loss of profit.

9.4 The Client agrees to extend any and all limitations, indemnifications, and waivers provided by the Client to Intertek to those individuals and organizations Intertek retains for proper execution of the work. These shall be deemed to include but are not necessarily limited to Intertek's officers and employees and their heirs and assigns, as well as Intertek's agents, subcontractors and their officers, employees, heirs and assigns.

9.5 Client acknowledges that testing, including sample preparation and transportation, may damage or destroy Client's product. Client agrees to hold Intertek harmless from any and all responsibility for such alteration.

9.6 The Client agrees Intertek shall not be responsible for any injuries to the Client's representatives while attending to or observing testing at Intertek's facility. If testing takes place at the Client's facility, Client agrees that Intertek will not operate and shall not be responsible for any of Client's equipment and that although Intertek agrees to abide by Client's safety procedures, Intertek shall not be responsible for injury to any of Client's personnel.

10.0 GOVERNING LAW

This proposal, and any work performed pursuant to this proposal, shall be governed by the laws of the jurisdiction within which the Intertek facility making the proposal is located. Any action brought hereon shall be venued in said jurisdiction.

11.0 SEVERABILITY

Any provision of this proposal that may be held invalid, void or unenforceable for any reason, shall not affect any other term or condition of this proposal, and such term or condition shall be replaced or interpreted to accomplish the intent of the parties.

12.0 MODIFICATIONS

No modification, waiver or amendment of any of these terms and conditions shall be binding upon Intertek unless identified in writing as to modification, waiver or amendment of such terms and conditions, and such writing is signed by an agent of Intertek acknowledging the modification, waiver or amendment.



AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.



Control Number: 2001561 Authorized by: William T. Starr Date: 11/16/07
William T. Starr, Certification Manager

This document supercedes all previous Authorizations to Mark for the noted Report Number.

This Authorization to Mark is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Authorization to Mark. Only the Client is authorized to permit copying or distribution of this Authorization to Mark and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement and in this Authorization to Mark. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

Intertek Testing Services NA Inc.
165 Main Street, Cortland, NY 13045 USA
Telephone 800-345-3851 or 607-753-6711 Fax 607-756-6699

Applicant:	<u>SolmeteX, Inc.</u>	Manufacturer:	<u>Same as Applicant</u>
Address:	<u>50 Bearfoot Road – Suite 2 Northborough, MA 01532-1553</u>	Address:	<u></u>
Country:	<u>USA</u>	Country:	<u>USA</u>
Contact:	<u>Mr. Ed Morassi</u>	Contact:	<u></u>
Phone:	<u>(508) 393-5115</u>	Phone:	<u></u>

Party Authorized To Apply Mark: Same as Manufacturer
Report Issuing Office: Boxborough

Standard(s):	ISO 11143, First Edition (1999-12-01) + Cor.1: 2002(E) "Dental Equipment – Amalgam separators."
Product:	Mercury Removal Unit
Models:	Hg5