

TEST REPORT

Testing laboratory:
Nordic Institute of Dental Materials
Sognsveien 70 A, NO-0855 Oslo, Norway

Test Report no. 005/15 issued: 2015 02 25

Client: PROTEKET AS
 P.b. 3924 Ullevål Stadion
 0806 OSLO

Name of product: Matticraft-V, Argedent-Euro, BiodurSoft-DFS
Batch number(s): -


Testing contract number: T-005/15

Date(s) of receipt of test item(s): 2015 01 22
Date(s) of performance of test(s): 2015 01 23 - 2015 02 19

Test methods and procedures according to:

EN ISO 22674:2006 Dentistry - Metallic materials for fixed and removable restorations and appliances

For the specific results, see the following pages.
This test report applies only to the item tested.
Comments regarding compliance with requirements are for guidance only. A final decision on certification is the responsibility of a Notified Body.


.....
Hilde Molvig Kopperud
Head of laboratory, dr. scient.

EN ISO 22674:2006 Dentistry – Metallic materials for fixed and removable restorations and appliances

Product: Matticraft-V

Manufacturer: Proteket AS

The numbers below refer to the corresponding sections in the reference standards

4 Classification

Type: -

5 Requirements

5.1 Chemical composition

Test method: 8.2 – ICP – OES, Silver Titration

Test results:

Noble element	Au		Pd			Ag		Sn		In	
% (m/m)	0,9		53,6			33,6		7,1		1,0	
Element	Zn	-	-	-	-	-	-	-	Ni	Cd	Be
% (m/m)	0,7	-	-	-	-	-	-	-	not present	not present	not present

Subcontractor: *Sheffield Analytical Services, UK*

Accreditation: *UKAS*

Analysis report identification: *05688/01*

Information given by the manufacturer:

Noble element	Au		Pd			Ag		Sn		In	
% (m/m)	1		53,7			35,7		7,5		1	
Element	Zn	-	-	-	-	-	-	-	-	-	-
% (m/m)	-	-	-	-	-	-	-	-	-	-	-

Comments: *Please see end of document*

Product: Argedent-Euro

Manufacturer: Proteket AS

The numbers below refer to the corresponding sections in the reference standards

4 Classification

Type: -

5 Requirements

5.1 Chemical composition

Test method: 8.2 – ICP - OES

Test results:

Element	Au		Pd		Ag		In		Ga	
% (m/m)	39,2		39,9		10,8		8,7		1,2	
Element	Sn	Ru	-	-	-	-	-	Ni	Cd	Be
% (m/m)	0,3	0,03	-	-	-	-	-	not present	not present	not present

Subcontractor: *Sheffield Analytical Services, UK*

Accreditation: *UKAS*

Analysis report identification: *05688/01*

Information given by the manufacturer:

Element	Au		Pd		Ag		In		Ga	
% (m/m)	40		39,4		10		8,8		1,4	
Element	Sn	Ru	-	-	-	-	-	-	-	-
% (m/m)	<1	<1	-	-	-	-	-	-	-	-

Comments: *The materials complies with the requirements*

Product: BiodurSoft-DFS

Manufacturer: Proteket AS

The numbers below refer to the corresponding sections in the reference standards

4 Classification

Type: -

5 Requirements

5.1 Chemical composition

Test method: 8.2 – ICP - OES, Silver Titration

Test results:

Noble element	Co		Cr		W		Mo		Nb	
% (m/m)	61,1		23,8		8,1		2,5		1,1	
Element	Mn	Si	Fe	-	-	-	-	Ni	Cd	Be
% (m/m)	0,64	1,10	1,00	-	-	-	-	not present	not present	not present

Subcontractor: *Sheffield Analytical Services, UK*

Accreditation: *UKAS*

Analysis report identification: *05688/01*

Information given by the manufacturer:

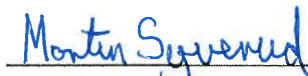
Noble element	Co		Cr		W		Mo		Nb	
% (m/m)	61		24		8		2,5		1	
Element	Mn	Si	Fe	-	-	-	-	-	-	-
% (m/m)	1	1	1	-	-	-	-	-	-	-

Comments: *The material complies with the requirements*

Comments:

For the alloy Matticraft-V the analyzed value for Ag is 2 % (m/m) below the given value. The total analysis of all elements in the alloy indicates that the composition of the analyzed alloy is in accordance with the given values.

Technical responsibility



Morten Syverud
Senior Engineer



Signature to verify that the data in this test report have
been copied correctly from the laboratory journal

Annex

EN ISO 22674:2006 Dentistry – Metallic materials for fixed and removable restorations and appliances

Measurement uncertainty given by subcontractor
expressed as standard relative uncertainty of the test result

Test method	Uncertainty
Gold Cupellation	0,085 %
Silver Titration Assay	0,12 %
ICP - analysis	0,90 %

PROTEKET AS
Postboks 3924 Ullevål Stadion
0806 Oslo

Oslo, 2015 02 24
J.nr. 2015/004/005

Testrapport for analyse av kroner

Testingen av MK - kroner i henhold til ISO 22674:2006 er nå ferdig. Vedlagt følger Test Report no. 005/15 sammen med faktura og evalueringsskjema.

Vi vil samtidig få takke for oppdraget.

Med hilsen


Hilde M. Kopperud
Laboratorieleder


Morten Syverud
Metallurg