

Materials List for:

Mimicking and Measuring Occlusal Erosive Tooth Wear with the "Rub&Roll" and Non-contact Profilometry

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URL: <https://www.jove.com/video/56400>

DOI: [doi:10.3791/56400](https://doi.org/10.3791/56400)

Materials

Name	Company	Catalog Number	Comments
Low speed handpiece	KAVO, Leutkirch imm Allgau, Germany		Dental equipment
Brush for handpiece	KAVO, Leutkirch imm Allgau, Germany		Dental equipment
Pumish			Dental equipment
Human third molars			
Impression compound green	Kerr, Bioggio, Switzerland	Art.nr. 00444	
Microscope slide	Menzel, Braunschweig, Germany		76 x 26 mm
Autoplast Cold curing denture base material	Candulor, Wangen, Switzerland		
Silicone mold with inside dimensions of 12 x 15 x 27.5	3M Espe Neuss, Germany	Express STD	
Pressure vessel	Al Dente, Meckenbeuren, Germany	581-009-024/25	
Milling cutter ø16mm	Format, Germany	HSSCo8 nr. 21691600	
Milling machine	Weiss Machine Tools	WMD 20 LV	
Rub&Roll	UMCN, Nijmegen The Netherlands		Technical workshop
Rub&Roll container	UMCN, Nijmegen The Netherlands		Technical workshop
Rub&Roll cylinder sample holder	UMCN, Nijmegen The Netherlands		Technical workshop
Rub&Roll motor	UMCN, Nijmegen The Netherlands		Technical workshop
Shim: Silicone plate massive 1 mm/ 1,5mm, 60 ± 5° Shore A, red	Peter van den Berg afdichtingstechniek, Barendrecht		
Lactid acid extra pure 88%	Boom, The Netherlands	CAS nummer: 79-33-4	
Calcium Chloride dihydrate CaCl ₂ · 2H ₂ O	Merck, Darmstadt, Germany	CAS nummer: 10043-52-4	
Pottassium dihydrogen Phosphate KH ₂ PO ₄	Merck, Darmstadt, Germany	CAS nummer: 7778-77-0	
Chloramine T (sodium salt) trihydrate for synthesis CH ₃ C ₆ H ₄ SO ₂ NCINa · 3H ₂ O	Merck, Darmstadt, Germany	CAS nummer: 7080-50-4	
Natriumfluoride standard solution 1000mg/L F Certipur	Merck, Darmstadt, Germany	CAS nummer: 7681-49-4	
Deionized water			
Kaliumhydroxide, pellets EMSURE analytical reagent KOH	Merck, Darmstadt, Germany	CAS nummer: 1310-58-3	

PVC tube(Hardness73 Shore A)outer diameter 14mm inner diameter 10mm	DEUTSCH & NEUMANN, Germany	Art.nr. 3501014	
Insert of a stainless steel 316 (Hardness 130–150 HB) diameter 9mm	UMCN , Nijmegen The Netherlands		Technical workshop
pH glass electrode	WTW, Weilheim, Germany	Sentix 61 103640	
Non contact Profilometer Proscan 2100	Scantron Industrial Products Ltd, Taunton, UK		http://www.scantronltd.co.uk
Software version Proscan 2100 2.1.1.15A+ Sensor S29 / 10-10000 microns	Scantron Industrial Products Ltd, Taunton, UK		
Software version Proform	Scantron Industrial Products Ltd, Taunton, UK		
Stereomicroscope Leica	www.leica-microsystems.com	M50	
Photocamera Canon	Canon Japan	EOS 50D	
Syringe	BD Plastipak, Spain	20 ml.	
Hotplate	Schott instruments Mainz	SLK1	
Silone impression material (Vinyl Polysiloxane Expres)	3M Espe , USA	Regular	
Stirring Plate	IKA Werke, Germany	KMO2 Basic	