

Materials List for:

Preparation and High-temperature Anti-adhesion Behavior of a Slippery Surface on Stainless Steel

Pengfei Zhang¹, Chen Huawei¹, Guang Liu¹, Liwen Zhang¹, Deyuan Zhang¹

¹School of Mechanical Engineering and Automation, Beihang University

Correspondence to: Chen Huawei at chenhw75@buaa.edu.cn

URL: <https://www.jove.com/video/55888>

DOI: [doi:10.3791/55888](https://doi.org/10.3791/55888)

Materials

Name	Company	Catalog Number	Comments
Stainless steel	Hongtu Corporation	316	Use as received
Octadecyltrichlorosilane	Huaxia Reagent	112-04-9	Use as received
Photoresist	Kempur Microelectronic Corporation	317S	Use as received
Silicone oil	Beijing Chemical Works	350 cst	Use as received
Anhydrous toluene	Beijing Chemical Works	108-88-3	Use as received
Phosphoric acid (H ₃ PO ₄)	Tianjin Chemical Corporation	7664-38-2	Use as received
Hydrochloric acid (HCl)	Tianjin Chemical Corporation	7647-01-0	Use as received
Ferric chloride (FeCl ₃)	Tianjin Chemical Corporation	7705-08-0	Use as received
Optical upright microscope	Olympus	BX51	
Optical stereo microscope	Olympus	SZX16	
High speed camera	Olympus	i-SPEED LT	
Ultrasonic cleaner	KUNSHAN ULTRASONIC INSTRUMENTS CO. LTD	KQ-500E	
Dynamometer	Yueqing Handapi Instruments Co. Ltd	HP-5	
Manipulator	Yueqing Handapi Instruments Co. Ltd	HLD	
Hot plate	Shenzhen Jingyihuang Corporation	DRB-1	