

Materials List for:

Pool-Boiling Heat-Transfer Enhancement on Cylindrical Surfaces with Hybrid Wettable Patterns

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Materials

Name	Company	Catalog Number	Comments
Deionized water			
Silica nanopowder,40 nm	UniRegion Bio-Tech	60676860	
Ethanol	ECHO Chemical co. Ltd	64175	
Hydrochloric acid	SHOWA Chemical co. Ltd.	7647010	
Tetraethoxysilane	SHOWA Chemical co. Ltd.	78104	
Acetone	UNI-ONWARD CORP.	67641	
Cartridge Heater	Chung Shun Heater & Instrument Co, Ltd.		
Pyrex glass	Automotive Glass service , Taiwan		
Ordinary toughened glass	Automotive Glass service , Taiwan		
Thermal paste	Electrolube	EG-30	
Insulation Tape	Chuan Chi Trading Co. Ltd	Kapton Tape	
Sandpaper	Chuan Chi Trading Co. Ltd	#2000	
Heating furnace	Chung Chuan	Hong Sen HS-101	
Electronic scales	A&D co. Ltd	GX400	
Ultrasonic cleaner	Branson	Branson 3510	
Magnet stirrer	Yellow line	MST D S1	
Data logger	Yokogawa	MX-100	
CCD camera	JVC	LY35862-001A	
Silicon paste	Permatex	599BR	
Power supply	Gwinstek	GPR-20H50D	
Teflon tape	Chuan Chi Trading Co. Ltd	CS170000	
Contact Angle Goniometer	Sindatek	Model 100SB	
Auxiliary Heater	Chuan Chi Trading Co. Ltd		
T- type thermocouples	Chuan Chi Trading Co. Ltd		
Reflux Condenser	Chuan Chi Trading Co. Ltd		
Fiber glass	Professional Plastics, Taiwan		