

Micromechanical Tension Testing of Additively Manufactured 17-4 PH Stainless Steel Specimens

 David Gonzalez-Nino¹, Steven Sonntag², Mahyar Afshar-Mohajer², Josh Goss², Min Zou², Gary S. Prinz¹
¹Department of Civil Engineering, University of Arkansas ²Department of Mechanical Engineering, University of Arkansas

Corresponding Author

 Gary S. Prinz
 prinz@uark.edu

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Materials

Name	Company	Catalog Number	Comments
45 ° SEM stub	TED Pella	16104	https://www.tedpella.com/SEM_html/SEMpinmount.htm
Acetone	VWR	CAS: 67-64-1	https://us.vwr.com/store/product/4533063/acetone-99-5-acs-vwr-chemicals-bdh
Branson 1510 Ultrasonic Cleaner	Branson Ultrasonic		
Carbon conductive tabs	PELCO image tabs	16084-20	https://www.tedpella.com/SEM/misc_html/semadhes.htm.aspx#16084-4
CrystalBond			
FEI Nova Nanolab 200 Dual-Beam Workstation			
Ferric Chloride	VWR	CAS: 7705-08-0	https://us.vwr.com/store/product/7516265/iron-iii-chloride-anhydrous-98-pure
Hydrochloric Acid (12.1M)	EMD	CAS: 7647-01-0, HX0603	https://www.emdmillipore.com/US/en/product/Hydrochloric-Acid,EMD_CHEM-HX0603
Hysitron PI-88	Bruker		
ISOMET Low Speed Saw	Buehler	11-1180-160	
Isopropanol	VWR	CAS: 67-63-0	https://us.vwr.com/store/product/4549282/2-propanol-99-5-acs-vwr-chemicals-bdh
ISOTEMP Hot Plate	Fisher Scientific		https://www.fishersci.com/shop/products/fisherbrand-isotemp-hot-plate-stirrer-ambient-540-c-ceramic/p-9078002
Kapton Tape			
Metaserv 2000 Grinder/Polisher	Buehler		
Nitric Acid (68-70%)	VWR	CAS:7697-37-2MW, BDH3130	https://us.vwr.com/store/catalog/product.jsp?catalog_number=BDH3130-2.5LP
PE-25 Serie Plasma System	Plasma Etch	PE-25	https://www.plasmaetch.com/pe-25-plasma-cleaner.php

PGMEA	J.T. Baker	CAS: 108-65-6	https://us.vwr.com/store/product/4539301/2-methoxy-1-methylethyl-acetate-pgmea-99-0-by-gc-stabilized-bts-220-j-t-baker
PhenoCure Compression Mounting Compound	Buehler	20-3100-080	https://shop.buehler.com/phenocure-blk-powder-5lbs
PI-88 Sample mount	Bruker	5-2238-10	
PI-FIB STOCK	Bruker	TI-0280	
SimpliMet 4000 Mounting Press	Buehler		https://www.buehler.com/simpliMet-4000-mounting-press.php
Spin Coater	Laurell Technologies Copr.	WS-650MZ-23NPPB	
SU-8 3025	Kayaku Advanced Materials (MicroChem)	Y311072 0500L1GL	https://www.fishersci.com/shop/products/su-8-3025-500ml/nc0057282
Tescan VEGA 3 SEM			
Thinky AR-1000 Conditioning Mixer	Thinky	AR-100	https://www.thinkymixer.com/en-us/product/ar-100/