

Materials List for:

Pore-scale Imaging and Characterization of Hydrocarbon Reservoir Rock Wettability at Subsurface Conditions Using X-ray Microtomography

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URL: <https://www.jove.com/video/57915>

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Materials

Name	Company	Catalog Number	Comments
Xradia VersaXRM-500 X-ray micro-CT	ZEISS	Quote	X-ray microtomography scanner, https://www.zeiss.com/microscopy/int/products/x-ray-microscopy.html
Teledyne Isco syringe pumps	Teledyne Isco	Quote	Model 100DM, Model 260D and Model 1000D, http://www.teledyneisco.com/en-uk
Core holder	Airborne	Quote	9.5 ID Coreholder, www.airborne-international.com
Gas pycnometer	Micromeritics	Quote	AccuPyc II 1340 Pycnometer, http://www.micromeritics.com/Product-Showcase/AccuPyc-II-1340.aspx
Thermocouple	Omega	KMTSS-IM025U-150	0.25 to 1.0 mm Fine Diameter MI Construction Thermocouples Terminated With A Mini Pot-Seal and 1m PFA Lead Wire, https://www.omega.co.uk/pptst/TJMINI_025-075MM_IEC.html
Flexible heating jacket	Omega	KH-112/5-P	Kapton Insulated Flexible Heaters, https://www.omega.co.uk/pptst/KHR_KHLV_KH.html
PEEK tubing	Kinesis	1533XL	PEEK Tubing 1/16"OD X 0.030" (0.75mm) ID Green, http://kinesis.co.uk/tubing-tubing-peek-green-1-16-x-0-030-0-75mm-x100ft-1533xl.html
Tube cutter	Kinesis	003062	Tube cutter, http://kinesis.co.uk/tubing-tube-cutter-003062.html
PEEK fingertight fitting	Kinesis	F-120X	Fingertight Fitting, single piece, for 1/16" OD Tubing, 10-32 Coned, PEEK, Natural, http://kinesis.co.uk/fingertight-fitting-single-piece-for-1-16-od-tubing-10-32-coned-peek-natural-f-120x.html
PEEK adapters and connectors	Kinesis	P-760	Adapters & Connectors: PEEK™ ZDV Union, for 1/16" OD Tubing, 10-32 Coned, http://kinesis.co.uk/catalogsearch/result?q=P-760
PEEK plug	Kinesis	P-551	Plug, 10-32 Coned, PEEK, Natural, http://kinesis.co.uk/plug-10-32-coned-peek-natural-p-551.html
Digital Caliper	RS	50019630	Digital caliper, http://uk.rs-online.com/web/
Three-way valve	Swagelok	SS-41GXS1	Stainless Steel 1-Piece 40G Series 3-Way Ball Valve, 0.08 Cv, 1/16

			in. Swagelok Tube Fitting, https://www.swagelok.com/en/catalog/Product/Detail?part=SS-41GXS1
Viton sleeve	Cole-Parmer	WZ-06435-03	Viton FDA Compliant Tubing, 3/16" (4.8 mm) ID, https://www.coleparmer.com/i/mn/0643503
Drilling bit	dk-holdings	quote	Standard wall drill *EDS540, 5mm internal diameter x continental shank, reinforced stepped shank 5mm of the tube behind 20mm of diamond, http://www.dk-holdings.co.uk/glass/starwall.html
Heptane	Sigma-Aldrich	246654-1L	Heptane, anhydrous, 99%, http://www.sigmaaldrich.com/catalog/product/sial/246654?lang=en&region=GB
Potassium iodide	Sigma-Aldrich	231-659-4	purity ≥ 99.0%, https://www.sigmaaldrich.com/catalog/product/sigma/60399?lang=en&region=GB
ParaView	Open source	Free	Data visualization software (Protocol step 6.6), https://www.paraview.org/
Avizo Software	FEI	License	Data visualization and analysis software (Protocol step 1.2, 5.7.1), https://www.fei.com/software/amira-avizo/
Reconstructor Software	ZEISS	License	https://www.zeiss.com/