

Materials List for:

In Situ Visualization of the Phase Behavior of Oil Samples Under Refinery Process Conditions

Cedric Laborde-Boutet¹, William C. McCaffrey¹

¹Department of Chemical and Materials Engineering, University of Alberta

Correspondence to: Cedric Laborde-Boutet at labordeb@ualberta.ca

URL: https://www.jove.com/video/55246

DOI: doi:10.3791/55246

Materials

Name	Company	Catalog Number	Comments
Sapphire window, C-plane, 3 mm thick - 20 mm diam., Scratch/Dig: 80/50	Guild Optical Associates		
C-seal	American Seal & Engineering	31005	
Type-K thermocouple	Omega	KMQXL-062U-9	
Ferrule (1/16")	Swagelok	SS-103-1	Inserted for creating a clearance gap between the magnet and the window surface
Coil Heater	OEM Heaters	K002441	
Temperature controller	Omron	E5CK	
Inverted microscope	Zeiss	Axio Observer.D1m	Require cross-polarizer module
Toluene, 99.9% HPLC Grade	Fisher	Catalog # T290-4	Harmful, to be handled in fume hood
Methylene chloride, 99.9% HPLC Grade	Fisher	Catalog # D143-4	Harmful, to be handled in fume hood
Acetone, 99.7 Certified ACS Grade	Fisher	Catalog # A18P-4	