

Materials List for:

Metal Corrosion and the Efficiency of Corrosion Inhibitors in Less Conductive Media

Lukáš Matějovský¹, Jan Macák², Olga Pleyer¹, Martin Staš¹

¹Department of Petroleum Technology and Alternative Fuels, University of Chemistry and Technology Prague

²Department of Power Engineering, University of Chemistry and Technology Prague

Correspondence to: Martin Staš at Martin.Stas@vscht.cz

URL: <https://www.jove.com/video/57757>

DOI: [doi:10.3791/57757](https://doi.org/10.3791/57757)

Materials

Name	Company	Catalog Number	Comments
sulfuric acid	Penta s.r.o., Czech Republic	20450-11000	p.a. 96 % CAS: 7664-93-9 http://www.pentachemicals.eu/
acetic acid	Penta s.r.o., Czech Republic	20000-11000	p.a. 99 % CAS: 64-19-7 http://www.pentachemicals.eu/
sodium sulphate anhydrous	Penta s.r.o., Czech Republic	25770-31000	p.a. 99,9 % CAS: 7757-82-6 http://www.pentachemicals.eu/
sodium chlorate	Penta s.r.o., Czech Republic		p.a. 99,9 % CAS: 7681-52-9 http://www.pentachemicals.eu/
demineralized water	-		
ethanol	Penta s.r.o., Czech Republic	71250-11000	p.a. 99 % CAS: 64-17-5 http://www.pentachemicals.eu/
gasoline fractions	Ceská rafinerská a.s., Kralupy nad Vltavou, Czech Republic		in compliance with EN 228 (57.4 vol. % of saturated hydrocarbons, 13.9 vol. % of olefins, 28.7 vol. % of aromatic hydrocarbons, and 1 mg/kg of sulfur)
Aceton	Penta s.r.o., Czech Republic		pure 99 %
Toluen	Penta s.r.o., Czech Republic		pure 99 %
Name	Company	Catalog Number	Comments
Potenciostat/Galvanostat/ZRA			
Reference 600	Gamry Instruments, USA		https://www.gamry.com/
1250 Frequency Response Analyser	Solarthrone		
SI 1287 Electrochemical Interference	Solarthrone		
Name	Company	Catalog Number	Comments
Software			
Framework 5.68	Gamry Instruments, USA		https://www.gamry.com/
Echem Analyst 5.68	Gamry Instruments, USA		https://www.gamry.com/
Corrware 2.5b	Scribner		http://www.scribner.com/
CView 2.5b	Scribner		http://www.scribner.com/
Zview 3.2c	Scribner		http://www.scribner.com/
MS Excel 365	Microsoft		
Name	Company	Catalog Number	Comments

Grinder			
Kompak 1031	MTH (Materials Testing Hrazdil)		