

Certificate of Analysis

HySA-A: PtNi-K40 PtNi(39.90wt%)/Ketjenblack® EC-300J

Specification	PtNi-K40
Batch No.:	PtNiK4001
Pt Loading (wt%):	34.10
Base Metal Loading (wt%):	5.80 (Ni)
XRD Crystallite Size - Scherrer Pt(220) (nm):	2.0
Electrochemical Surface Area - CV H _{ads} Charge (m ² /g Pt):	70.2 ±4.7
Electrochemical Surface Area - CV CO _{ox} Charge (m ² /g Pt):	77.9 ±3.1

*Full descriptions of measurement protocols available upon request.