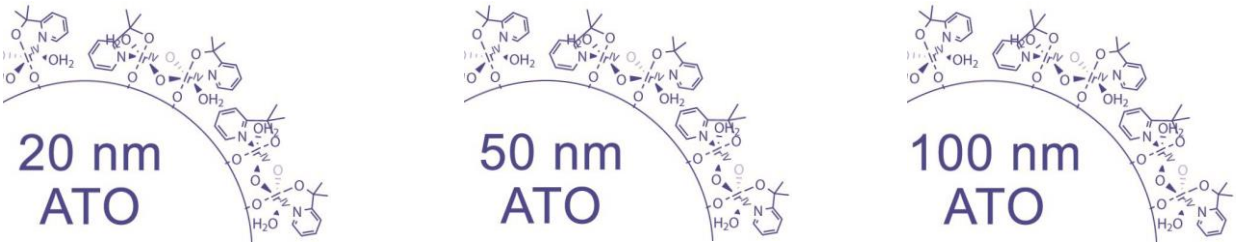
Strem Chemicals, Inc. **www.strem.com**

Acid Stable Iridium-Decorated Conductive Oxides

Name: Antimony Tin Oxide/Iridium Het-WOC core/shell nanopowder

ATO Composition: 90% SnO_2, 10% Sb_2O_3 (w/w)



Products:

Product Number	***Particle Size***	***BET Surface area***	***Resistivity***
77-0030	20 nm	50 – 60 m^2/g	0.3 – 0.7 Ω•cm
77-0035	50 nm	40 – 50 m^2/g	0.05 – 0.08 Ω•cm
77-0040	100 nm	5 – 10 m^2/g	0.05 – 0.08 Ω•cm

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US Patent Publication No. US20150021194 A1.

Applications: Oxidation catalysis, wastewater remediation, corrosion resistance, ORR scaffold in fuel cells, OER scaffold in electrolysis.

Right: Cyclic voltammogram of 50 nm ATO/het-WOC core/shell nanopowder operating in a test electrolyzer (built-in $Hg/HgSO_4$ reference) for oxygen evolution (blue) compared to a bare 50 nm ATO control (grey). Redox features of the molecular iridium species are present, as well as the catalytic wave for oxygen evolution. Activity persists for over 90 days.