## **INK-JF060**

Date: 2025-05-05
Tags: Ir ATO
Category: INK
Status: Success

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## **Ink Preparation Calculation Results**

1. Catalyst Information

Catalyst: ATS-JF060Composition: Ir 1.0Support: ATO

- 1. Catalyst Inputs
- Catalyst Stock Metal Concentration: 2.5 mg/ml
- Metal Loading on Support: 50 wt%
- Target Metal Loading on Electrode: 50 μg/cm<sup>2</sup>
- Electrode Area: 0.196 cm<sup>2</sup>
- 1. Ink Design Targets
- Final Ink Volume: 1 ml
- Target Metal Concentration in Ink: 2 mg/ml
- 1. Binder Inputs

Binder Stock Concentration: 5 wt%
Binder Calculation Mode: content
Target Binder Content: 25 wt%

1. Calculated Results

Required Catalyst Stock Volume: 800.0 μl
 Required Binder Stock Volume: 28.86 μl
 Remaining Solvent Volume to Add: 171.14 μl
 Geometric Binder Loading: 33.33 μg/cm²
 Required Ink Volume to Drop-cast: 4.9 μl

## **Procedure**

The ink was prepared according to the parameters above. A mixture of 2:1 water:iPrOH was used as solvent. The ink was sonicated very shortly (5-10 seconds) with a sonication horn at 20% to increase dispersion.

## **Linked experiment**

Synt Autoclave (ATS) - ATS-JF060

