



## Actydon I Iridium

Anode Catalyst Portfolio for Green Hydrogen Production

## Heraeus catalysts save 50-90% on iridium compared to the market's benchmark!

Heraeus' product portfolio includes electrolyzer catalysts with different precious metal loadings, which provide numerous benefits to your application. In order to find the perfect solution for your needs, you can conduct tests in Heraeus' fully equipped on-site laboratories and test center.

Heraeus' electrolyzer catalysts address decreased iridium content while increasing efficiency and performance. Our electrolyzer catalysts deliver the following benefits:



### ACTIVITY

Efficient use of Iridium in different catalyst concepts allows to increase performance & reduce costs



### STABILITY

With stability comes reliability, our catalysts will contribute to a high lifetime in your application



### IRIDIUM SAVING

Ideal for large scale application due to significant savings in precious metal content



### ELECTRODE AREA SAVING

Strong decrease in capital expenditure due to Iridium and catalyst material savings

## A comprehensive product portfolio to fit your needs

Catalyst	Actydon I Ir 100 B	Actydon I Ir 80 X	Actydon I Ir S	Actydon I Ir Ru
Features	High metal purity	High surface area	High mass activity	With stabilized Ru for high activity and Ir saving
Ir content [%]	100	79 – 83	10 – 50	14 – 80
Ir crystallite size [nm] via XRD	3	2 – 4	n.a.	1.8 – 5.5
BET surface area [m <sup>2</sup> /g]	>20	>200	20 – 100	150 – 190
Mass activity @ 1.45 V <sub>cell</sub> (IR-free) [A/g]	55	86	138 – 460	177 – 880

For more detailed information about our broad product portfolio, please contact our sales experts.

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