



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 Ir 100 B | Actydon Ir 80 X | Actydon Ir 80 XSP | Actydon Ir S | Actydon Ir Ru |
|---|--------------------|-------------------|--|--------------------|--|
| Features | High metal purity | High surface area | Smaller agglomerate size for better processability | High mass activity | With stabilized Ru for high activity and Ir saving |
| Ir content [%] | 100 | 79 – 83 | 79 – 83 | 10 – 50 | 14 – 80 |
| Ir crystallite size [nm] via XRD | 3 | 2 – 4 | 2 – 4 | n.a. | 1.8 – 5.5 |
| BET surface area [m ² /g] | > 20 | > 200 | > 160 | 20 – 100 | 150 – 190 |
| Mass activity @ 1.45 V _{cell} (IR-free) [A/g _{Ir}] | 55 | 86 | 86 | 138 – 460 | 177 – 880 |

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

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