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|--|---|-------|
| <b>96-6670 Evonik Heterogeneous Catalyst Kit</b>   |   | 1 kit |
| Components also available for individual sale in 10g and 50g sizes.<br>Contains the following: |   |       |
| <b>44-4060</b>   | Ruthenium, 5% on activated carbon, (50-70% wetted powder) Evonik Noblyst® P3060 (7440-18-8)               | 10g   |
| <b>45-1863</b>   | Rhodium, 5% on activated carbon (50-70% wetted powder) Evonik Noblyst® P3053 (7440-16-6)                  | 10g   |
| <b>46-1703</b>   | Palladium, 5% on activated carbon (50-70% wetted powder) Evonik Noblyst® P1086 (7440-05-3)                | 10g   |
| <b>46-1706</b>   | Palladium, 10% on activated carbon, Pearlman (50-70% wetted powder) Evonik Noblyst® P1070 (7440-05-3)     | 10g   |
| <b>46-1740</b>   | Palladium, 5% on activated carbon (50-70% wetted powder) Evonik Noblyst® P1090 (7440-05-3)                | 10g   |
| <b>46-1743</b>   | Palladium, 5% on activated carbon (50-70% wetted powder) Evonik Noblyst® P1093 (7440-05-3)                | 10g   |
| <b>46-1747</b>   | Palladium, 5% on activated carbon (50-70% wetted powder) Evonik Noblyst® P1092 (7440-05-3)                | 10g   |
| <b>46-1750</b>   | Palladium, 5% on activated carbon (50-70% wetted powder) Evonik Noblyst® P1109 (7440-05-3)                | 10g   |
| <b>78-1530</b>   | Platinum, 5% on activated carbon (50-70% wetted powder) Evonik Noblyst® P2058 (7440-06-4)                 | 10g   |
| <b>78-1534</b>   | Platinum, 5% on activated carbon (50-70% wetted powder) Evonik Noblyst® P2060 (7440-06-4)                 | 10g   |
| <b>78-1536</b>   | Platinum 1% and vanadium 2%, on activated carbon (50-70% wetted powder) Evonik Noblyst® P8078 (7440-06-4) | 10g   |
| <b>78-1544</b>   | Platinum, 3% on activated carbon, sulfided (50-70% wetted powder) Evonik Noblyst® P2067 (7440-06-4)       | 10g   |

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| <b>96-6674 Evonik Heterogeneous Catalyst Kit for Selective Hydrogenation</b>                   |   | 1 kit |
| Components also available for individual sale in 10g and 50g sizes.<br>Contains the following: |   |       |
| <b>44-4060</b>   | Ruthenium, 5% on activated carbon, (50-70% wetted powder) Evonik Noblyst® P3060 (7440-18-8)               | 10g   |
| <b>45-1863</b>   | Rhodium, 5% on activated carbon (50-70% wetted powder) Evonik Noblyst® P3053 (7440-16-6)                  | 10g   |
| <b>78-1530</b>   | Platinum, 5% on activated carbon (50-70% wetted powder) Evonik Noblyst® P2058 (7440-06-4)                 | 10g   |
| <b>78-1534</b>   | Platinum, 5% on activated carbon (50-70% wetted powder) Evonik Noblyst® P2060 (7440-06-4)                 | 10g   |
| <b>78-1536</b>   | Platinum 1% and vanadium 2%, on activated carbon (50-70% wetted powder) Evonik Noblyst® P8078 (7440-06-4) | 10g   |
| <b>78-1544</b>   | Platinum, 3% on activated carbon, sulfided (50-70% wetted powder) Evonik Noblyst® P2067 (7440-06-4)       | 10g   |

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| <b>96-6672 Evonik Heterogeneous Palladium Catalyst Kit</b>                                     |   | 1 kit |
| Components also available for individual sale in 10g and 50g sizes.<br>Contains the following: |   |       |
| <b>46-1703</b>   | Palladium, 5% on activated carbon (50-70% wetted powder) Evonik Noblyst® P1086 (7440-05-3)            | 10g   |
| <b>46-1706</b>   | Palladium, 10% on activated carbon, Pearlman (50-70% wetted powder) Evonik Noblyst® P1070 (7440-05-3) | 10g   |
| <b>46-1740</b>   | Palladium, 5% on activated carbon (50-70% wetted powder) Evonik Noblyst® P1090 (7440-05-3)            | 10g   |
| <b>46-1743</b>   | Palladium, 5% on activated carbon (50-70% wetted powder) Evonik Noblyst® P1093 (7440-05-3)            | 10g   |
| <b>46-1747</b>   | Palladium, 5% on activated carbon (50-70% wetted powder) Evonik Noblyst® P1092 (7440-05-3)            | 10g   |
| <b>46-1750</b>   | Palladium, 5% on activated carbon (50-70% wetted powder) Evonik Noblyst® P1109 (7440-05-3)            | 10g   |

| Strem Item #   | 96-6670 - Heterogeneous Catalyst Kit |                             |                             |                             |                             |                             |                                       |                             |                             |                             |                              |                             |
|--|--------------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|-----------------------------|
|  | 96-6672 - Palladium Catalyst Kit     |                             |                             |                             |                             |                             | 96-6674 - Selective Hydrogenation Kit |                             |                             |                             |                              |                             |
|  | 46-1706                              | 46-1703                     | 46-1740                     | 46-1747                     | 46-1743                     | 46-1750                     | 78-1530                               | 78-1534                     | 78-1544                     | 45-1863                     | 44-4060                      | 78-1536                     |
| <b>Noblyst® nomenclature Application/Catalyst</b>  | Noblyst®<br>P 1070<br>10% Pd         | Noblyst®<br>P 1086<br>5% Pd | Noblyst®<br>P 1090<br>5% Pd | Noblyst®<br>P 1092<br>5% Pd | Noblyst®<br>P 1093<br>5% Pd | Noblyst®<br>P 1109<br>5% Pd | Noblyst®<br>P 2058<br>5% Pt           | Noblyst®<br>P 2060<br>5% Pt | Noblyst®<br>P 2067<br>3% Pt | Noblyst®<br>P 3053<br>5% Rh | Noblyst®<br>P 3060<br>5% Ru  | Noblyst®<br>P 8078<br>1% Pt |
| Hydrogenation of C=C Double Bonds  |                                      | ●                           |                             | ○                           | ●                           | ○                           |                                       |                             |                             |                             |                              |                             |
| Hydrogenation of CN Bonds  | ○                                    |                             | ○                           | ●                           |                             | ●                           | ○                                     | ●                           |                             | ●                           |                              |                             |
| Reduction of the C=O Group   |                                      | ○                           |                             | ●                           | ○                           | ●                           |                                       |                             |                             | ●                           | ●                            |                             |
| Hydrogenation of Nitro Groups  | ●                                    | ●                           |                             | ●                           | ○                           | ○                           | ●                                     | ○                           | ○                           |                             |                              | ●                           |
| Hydrogenolysis Reactions<br>(Deprotections, Dehalogenations, etc.)   | ○                                    |                             | ●                           | ●                           |                             | ○                           |                                       |                             |                             |                             |                              |                             |
| Reductive Alkylation and Amination   |                                      | ●                           | ○                           | ○                           | ●                           |                             |                                       |                             | ●                           |                             |                              |                             |
| Hydrogenation of (Hetero) Aromatic Rings   |                                      | ●                           | ○                           | ●                           | ○                           |                             | ○                                     | ○                           |                             | ●                           | ●                            |                             |
| Oxidations (Alcohols and Sugars)   |                                      |                             |                             |                             |                             |                             | ●                                     | ●                           |                             |                             |                              |                             |
| CC Coupling Reactions  | ○                                    |                             |                             | ●                           | ●                           | ○                           |                                       |                             |                             |                             |                              |                             |
|  |                                      |                             |                             |                             |                             |                             |                                       |                             |                             |                             | ○ recommended<br>● preferred |                             |
| <p>Note: Please refer to the different reaction classes in the Evonik manual for more detailed information regarding selectivity, activity and reaction conditions. This sample kit is designed as an entry point to find a suitable catalyst. Please contact one of our technical specialists for further recommendations. Most often the catalyst performance can be improved significantly by tailoring the catalyst to your requirements.</p> <p>The recommendations given above are believed to be accurate at the time of publication but EVONIK makes no warranty with respect thereto, including but not limited to any results to be obtained or the infringement of any proprietary right.</p> |                                      |                             |                             |                             |                             |                             |                                       |                             |                             |                             |                              |                             |

## Availability & Shipping

Our products are available globally in various sizes including bulk shipping.

For a complete listing of the Strem Catalog products and catalysis applications, please visit [strem.com](http://strem.com) or contact our team today [info@ascensusspecialties.com](mailto:info@ascensusspecialties.com).

## Collaboration

Sold in collaboration with Evonik for research purposes only.



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