## Selection of the sample cups

<table>
<thead>
<tr>
<th>Product name</th>
<th>Product number (Quantity)</th>
<th>Material</th>
<th>Volume</th>
<th>Maximum temperature</th>
<th>Compatibility with AS-1020E</th>
<th>Appearance</th>
<th>Description</th>
</tr>
</thead>
</table>
| Eco-Cup LF   | PY1-EC80F (100 ea)      | Stainless steel (Deactivated\(^1\)) | 80 µL   | 1,050°C             | No                          | ![Image](8mm_4mm.png) | All application\(^2\)  
Optimum pyrolysis temperature is 30°C lower than Eco-cup SF for most polymeric materials due to large surface area. This is useful for samples with relatively large volumes.  
100 ea x 4 bottles/set (P/N: PY1-EC80F-V4) is also available. |
| Eco-Cup SF   | PY1-EC50F (100 ea)      | Stainless steel (Deactivated\(^1\)) | 50 µL   | 1,050°C             | Yes                         | ![Image](5mm_4mm.png) | All application\(^2\)  
This cup provides slightly better pyrogram reproducibility in flash pyrolysis-GC mode than Eco-cup LF. |
| RoHS-Cup LN  | PY1-EC80N (100 ea)      | Stainless steel (Non-Deactivated)  | 80 µL   | 700°C               | Yes                         | ![Image](8mm_4mm.png) | For phthalates analysis only.  
Single use, disposable sample cup.  
100 ea x 5 bottles/set (P/N: PY1-EC80N-V5), 100 ea x 10 bottles/set (P/N: PY1-EC80N-V10) are also available. |
| Eco-Cup G    | PY1-EC50G (100 ea)      | Pyrex glass (Non glass coated)     | 50 µL   | 450°C               | Yes\(^3\)                   | ![Image](8mm_4mm.png) | Disposable cup for Frontier-lab's pyrolyzer.  
The cups are made of clear glass, the sample position, sample color change, residues, and contamination can easily be observed.  
For thermal desorption and reactive pyrolysis.  
Maximum temperature is 450°C. |
| Eco-Cup GQ   | PY1-EC50GQ (30 ea)      | Pyrex glass (Glass coated)         | 50 µL   | 600°C               | Yes\(^3\)                   | ![Image](8mm_4mm.png) | Disposable cups for Frontier-lab’s pyrolyzer.  
Glass coated with a bonded quartz layer.  
Maximum temperature is 600°C.  
For thermal desorption, reactive pyrolysis and pyrolysis |

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\(^1\) The entire surface has been deactivated using the same proprietary technology used for Ultra Alloy ® columns. The thickness is 0.1 mm.  
\(^2\) Except analysis with Micro-UV Irradiator (UV/Py-GC/MS). Please use the Side Hole Eco-Cup UV (P/N: PY1-EC80UV) when use UV-1047Xe.  
\(^3\) Use the sample cup recovery chute equipped with Teflon sheet.
## Selection of the sample cups

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<tr>
<th>Product name</th>
<th>Product number (Quantity)</th>
<th>Material (Deactivated(^1))</th>
<th>Volume</th>
<th>Maximum temperature</th>
<th>Compatibility with AS-1020E</th>
<th>Appearance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eco-Cup LHF (Flow Through)</td>
<td>PY1-EC80HF (20 ea)</td>
<td>Stainless steel</td>
<td>80 µL</td>
<td>1,050°C</td>
<td>No</td>
<td></td>
<td>• This cup provides better peak shape resolution of volatile compounds (C3-10) than regular cups. And it prevents secondary reactions under a low carrier gas flow, e.g. 10 mL/min.</td>
</tr>
<tr>
<td>Eco-Cup SHF (Flow Through)</td>
<td>PY1-EC50HF (20 ea)</td>
<td>Stainless steel</td>
<td>50 µL</td>
<td>1,050°C</td>
<td>No</td>
<td></td>
<td>• This cup provides better peak shape resolution of volatile compounds (C3-10) than regular cups. And it prevents secondary reactions under a low carrier gas flow, e.g. 10 mL/min.</td>
</tr>
<tr>
<td>Side Hole Eco-Cup UV</td>
<td>PY1-EC80UV (20 ea)</td>
<td>Stainless steel</td>
<td>80 µL</td>
<td>1,050°C</td>
<td>Yes</td>
<td></td>
<td>• Used for analysis with Micro-UV Irradiator (UV/Py-GC/MS).</td>
</tr>
</tbody>
</table>

\(^1\) The entire surface has been deactivated using the same proprietary technology used for Ultra Alloy ® columns. The thickness is 0.1 mm.

\(^2\) Except analysis with Micro-UV Irradiator (UV/Py-GC/MS). Please use the Side Hole Eco-Cup UV (P/N: PY1-EC80UV) when use UV-1047Xe.

\(^3\) Use the sample cup recovery chute equipped with Teflon sheet.
### Selection of the sample sticks

<table>
<thead>
<tr>
<th>Product name</th>
<th>Product number (Quantity)</th>
<th>Material</th>
<th>Maximum temperature</th>
<th>Appearance</th>
<th>Description</th>
</tr>
</thead>
</table>
| Eco-Stick SF   | PY1-ES10F (50 ea)         | Stainless steel (Deactivated*)  | 1,050°C             | ![Image](L=30 mm) | • For stainless steel Eco-Cups*1.  
• Used for manual Single-Shot analysis, EGA analysis or Heart-Cut EGA analysis. |
| Eco-Stick DF   | PY1-ES20F (50 ea)         | Stainless steel (Deactivated*)  | 1,050°C             | ![Image](L=80 mm) | • For stainless steel Eco-Cups*1.  
• Used for manual Double-Shot analysis.                                   |
| Eco-Stick GS   | PY1-ES10G (50 ea)         | Stainless steel (Deactivated*)  | 600°C               | ![Image](L=30 mm) | • For glass Eco-Cups.  
• Used for Single-Shot analysis, EGA analysis or Heart-Cut EGA analysis.   |
| Eco-Stick GD   | PY1-ES20G (50 ea)         | Stainless steel (Deactivated*)  | 600°C               | ![Image](L=80 mm) | • For glass Eco-Cups.  
• Used for Double-Shot analysis.                                           |
| Eco-Pickup F   | PY1-EP55F (5 ea)          | Stainless steel                 | 1,050°C             | ![Image](L=135 mm) | • For stainless steel Eco-Cup recovery                                     |
| Eco-Pickup GF  | PY1-EP55GF (5 ea)         | Stainless steel                 | 600°C               | ![Image](L=135 mm) | • For glass Eco-Cup recovery                                               |

*1 The entire surface has been deactivated using the same proprietary technology used for Ultra Alloy ® columns.