



Enkase™

# Comparing Enkase™ with Alternatives - Metal Packaging

Enkase™ is a unique, permanent barrier technology that transforms conventional plastics into high performance packaging. Enkase™ technology has the lowest carbon footprint of any barrier packaging, making it the most environmentally responsible choice.

Metal packaging is often used to store and transport hazardous chemicals as well as aggressive or flammable chemistries.

The following table lists some considerations when choosing a barrier packaging technology:

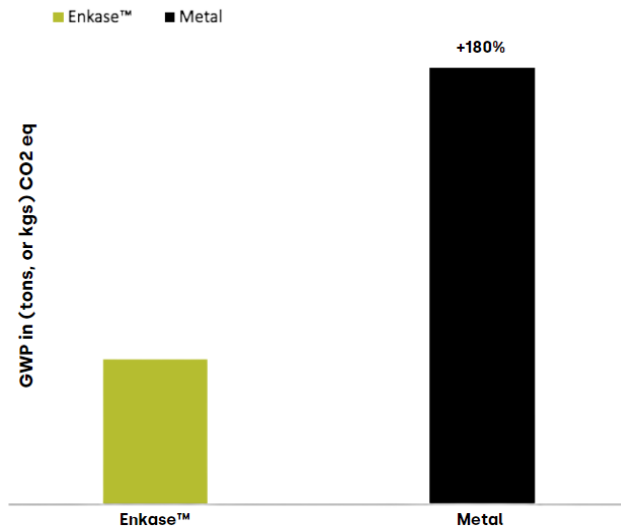
	Enkase™	Metal packaging	Attributes of Enkase™
<b>Sustainability</b>	■■■■	■□□□	<ul style="list-style-type: none"> <li>Lowest Global Warming Potential</li> <li>Certified fully recyclable HDPE packaging</li> <li>Plastic retains #2 HDPE designation</li> <li>Zero waste, zero emissions, zero water process</li> </ul>
<b>Design freedom</b>	■■■■	■□□□	<ul style="list-style-type: none"> <li>Enables light-weighting (up to 4x lighter)</li> <li>Any shape, color or size packaging</li> <li>Any shape spout, closures and other components</li> <li>Tubes, collapsible, standup pouches, drums, IBCs</li> <li>Enables complex container designs</li> </ul>
<b>Processing flexibility</b>	■■■■	■□□□	<ul style="list-style-type: none"> <li>Any container can be enhanced with Enkase™</li> <li>No special tooling, molding conditions or equipment required</li> <li>Multiple production facilities available globally</li> <li>No preprinting of labels</li> </ul>
<b>Supply chain flexibility</b>	■■■■	■□□□	<ul style="list-style-type: none"> <li>Multiple sources for monolayer HDPE packaging</li> <li>Local supply, globally</li> <li>Eliminates long logistics time</li> <li>Significantly lower cost and stable pricing</li> </ul>
<b>Packaging durability</b>	■■■■	■□□□	<ul style="list-style-type: none"> <li>No rusting</li> <li>No denting</li> </ul>

■■■■ Excellent    ■■■□ Good    ■■□□ OK    ■□□□ Poor



TM

Plastic packaging has demonstrated to be the most environmentally friendly solution when evaluated using Life Cycle Assessments.



Graph 1: Demonstrates the Global Warming impact of Enkase™ versus metal packaging\*.

Enkase™ is pledged to the Ellen MacArthur Foundations' New Plastics Economy Global Commitment and is recognized by Suez Circpack®, the Association of Plastics Recyclers and Plastic Recyclers Europe's RecyClass as fully recyclable.



\*Materials and the Environment: Eco-informed Material Choice, Michael F. Ashby, 3rd Edition, 2021.

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