galenIQ™ makes medicine taste better.

galenIQ™ – the sweet filler binder

Isomalt (Ph. Eur., BP, USP-NF, JP)
The palatability enhancer.

Choosing the right filler-binder can enhance the overall taste and mouthfeel of pharmaceutical and nutraceutical products. Medicine that taste good can considerably increase the acceptance by certain patient groups like children, the elderly and people with chronic conditions. It is also of importance in the growing field of veterinary medicine.

galenIQ™ makes medicine taste better. It is a highly functional filler-binder that stands out for its well-balanced sweetness that reduces the bitter taste of APIs and helps to mask the unpleasant taste of ingredients such as plant extracts. galenIQ™ is the pharmaceutical grade of BENEO’s Isomalt that is derived from beet sugar. Its pleasant mouthfeel is very similar to that of sucrose and it has no significant off-taste or aftertaste.

Besides its good taste, the unique morphology and ease of use of galenIQ™ open the door to the development of innovative pharmaceutical products.

Key benefits of galenIQ™.

- **Chemically stable**
- **High flowability**
- **Easy to use**
- **Promotes high content uniformity**
- **Soluble in water**
- **Different solubilities**
- **Suitable for diabetics**
- **Non-animal origin**
- **Non-cariogenic**
- **High dilution**
- **Non-hygroscopic**
- **Sugar-free**
- **Sugar-like, natural taste**

Technical functionality in a broad spectrum of applications.

The galenIQ™ range is multi-functional. It comprises different grades of solubility with varying particle size. This makes it a highly flexible excipient. galenIQ™ can easily be applied to tablets and powdered formulas, to coat solid dosage forms and as a component in hot melt extrusion processes and liquid applications.

The excipient of choice for:

- **Chewable Tablet**
- **Sachet / Stick Pack**
- **Powder Blend**
- **Lozenge Tablet**
- **Probiotic Tablet**
- **Mini Tablet**
- **Effervescent Tablet**
- **Wet Granulation**
- **High Boiled Lozenge**
- **Oil Carrier**
- **Pan Coating**
- **Syrup**
BENEO closely monitors the global regulatory framework and actively invests in research and development to strengthen the scientific foundation of galenIQ™. Thanks to being produced in a fully owned, state-of-the-art facility, our excipient complies with the highest quality and safety standards.

galenIQ™ is manufactured under cGMP conditions according to the IPEC-PQG requirements for pharmaceutical bulk excipients. galenIQ™ complies with the current Ph. Eur., BP, USP-NF and JP monographs for Isomalt and is approved for use in China. galenIQ™ is a white, odourless, water soluble, crystalline substance of non-animal origin, derived from sucrose.

### Physical properties of galenIQ™

<table>
<thead>
<tr>
<th>Grade</th>
<th>galenIQ™ 720</th>
<th>galenIQ™ 721</th>
<th>galenIQ™ 800</th>
<th>galenIQ™ 801</th>
<th>galenIQ™ 900</th>
<th>galenIQ™ 960</th>
<th>galenIQ™ 981</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preferred application</td>
<td>direct compression, powder blend</td>
<td>direct compression, powder blend</td>
<td>wet granulation, agglomeration</td>
<td>High-shear granulation, Fluid bed agglomeration</td>
<td>high-boiled lozenge</td>
<td>capsule filling, dry blend, hot melt extrusion</td>
<td>pan coating, syrup</td>
</tr>
<tr>
<td>Composition GPS/GPM</td>
<td>1:1</td>
<td>3:1</td>
<td>1:1</td>
<td>3:1</td>
<td>1:1</td>
<td>3:1</td>
<td>1:1</td>
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<tr>
<td>Solubility in water at 20 °C (g/100 g)</td>
<td>25</td>
<td>42</td>
<td>25</td>
<td>42</td>
<td>25</td>
<td>42</td>
<td>25</td>
</tr>
<tr>
<td>Particle size distribution (µm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Method</td>
<td>mechanical sieve shaker</td>
<td>mechanical sieve shaker</td>
<td>laser diffraction</td>
<td>laser diffraction</td>
<td>mechanical sieve shaker</td>
<td>mechanical sieve shaker</td>
<td>mechanical sieve shaker</td>
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<tr>
<td>Bulk density (g/l)</td>
<td>410</td>
<td>450</td>
<td>450</td>
<td>450</td>
<td>850</td>
<td>330</td>
<td>750</td>
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<tr>
<td>Total water K. F. (%)</td>
<td>3,0</td>
<td>2,9</td>
<td>2,1</td>
<td>2,7</td>
<td>2,6</td>
<td>3,30</td>
<td>750</td>
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<tr>
<td>Loss on drying (%)</td>
<td>0,21</td>
<td>0,12</td>
<td>0,26</td>
<td>0,21</td>
<td>0,12</td>
<td>0,02</td>
<td></td>
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</table>

*This information on average values is presented for good faith, but warranty to accuracy of results is not given. It is offered only for your consideration, comparison and reflection. Typical analysis data fall within the range of specification of galenIQ™.
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BENEÖ is a member of the International Pharmaceutical Excipients Council (IPEC) and produces galenIQ™ under GMP conditions for pharmaceutical excipients. Contact one of our experts for your product development with galenIQ™.

Visit our Website.
Just scan the QR code on your phone.