Your partner in
BLOW FILL SEAL
Proven solutions for healthcare
We offer a wide range of high value polyolefins solutions for all kind of market applications.

INEOS Olefins & Polymers Europe
BLOW FILL SEAL

Blow Fill Seal
Pharmaceutical applications – what Eltex® MED provides

Product availability/change control
- Continuity of supply and formulation (2 years)
- Notice of changes (2 years)

Certification and regulation
- European Pharmacopoeia composition compliance to Polyolefin related monographs: 3.1.4, 3.1.6
- United States Pharmacopoeia USP class VI
- Drug Master File nr. 21252 & 20554
- Formula disclosure under secrecy agreement

Tested grades
- EUP full testing 3.1.4 & 3.1.6
- USP class VI tested

Customised support
- Technical support specific to Eltex® MED
- Certificates online, Eltex® MED personalised access

Control and logistic
- Maximised batch purity
- Consistency batch-to-batch
- Traceability (documentation and QC samples)
- Inside storage/enhanced clean logistics: manufacturing to unloading
Eltex® MED Healthcare Product Range for BFS

A wide range of regularly tested polymers

**LDPE Eltex MED range**

Grades manufactured at our Norwegian facility in Bamble and German facility in Köln, certified ISO 9001 and 14001

<table>
<thead>
<tr>
<th>Test Method</th>
<th>MFR g/10min</th>
<th>Density kg/m³</th>
<th>Main Properties</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH22D630</td>
<td>0.3</td>
<td>922</td>
<td>Outstanding flexibility</td>
<td>BFS (SVP bottles &amp; ampoules)</td>
</tr>
<tr>
<td>PH27D630</td>
<td>0.3</td>
<td>927</td>
<td>Steam autoclave treatment up to 110 °C</td>
<td>BFS (SVP bottles &amp; ampoules)</td>
</tr>
<tr>
<td>PH30D630</td>
<td>0.3</td>
<td>930</td>
<td>Steam autoclave treatment above 110 °C</td>
<td>BFS (MVP &amp; LVP bottles)</td>
</tr>
<tr>
<td>PH23H630</td>
<td>2</td>
<td>923</td>
<td>High fluidity requirements</td>
<td>Unidose ampoules</td>
</tr>
</tbody>
</table>

**PP Eltex® MED range**

Grades manufactured at our Lavéra facility in the South of France certified ISO 9001 and 14001

<table>
<thead>
<tr>
<th>Test Method</th>
<th>MFR g/10min</th>
<th>Flex Mod 23º C MPa ISO 178</th>
<th>Main Properties</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>200-MG02</td>
<td>1.8</td>
<td>900</td>
<td>Good optical properties. Can be steam sterilised to 121° C. Easy processing.</td>
<td>BFS (bottles &amp; ampoules)</td>
</tr>
</tbody>
</table>
Eltex® MED

/ Manufacturing in compliance with food-GMP's requirements and guidelines

/ Longer transition purge and/or appropriate placement into the product wheel

/ Narrowest manufacturing specifications

/ Mention of date of manufacture onto CoA’s

/ Advanced CoA upon agreement including full European Pharmacopeia (3.1.4 for LDPE/3.1.6 for PP) testing on batch delivered

/ Periodic microbiological assessment on granules

/ Batch archive-sample retained for min. 3 years

/ FTIR spectrum fingerprint archived on each batch

/ EUP & USP testing periodically performed
INEOS Olefins & Polymers Europe is a market leading polyolefin producer, operating from a uniquely broad technology base. With a highly experienced sales and technical service team as well as extensive Research and Development facilities we are committed to developing and manufacturing specific product solutions for high demanding markets such as medical devices and pharmaceutical packaging. In a market requiring long and complex homologation protocols, Eltex® MED has a proven track record in meeting the needs of high-value packaging applications for medical & pharmaceutical products:

- Additive-free resins guaranteeing optimised resin purity and quality consistency
- Chemical inertia, compliance to regulations
- Suitable for many converting processes, offering fast production cycles and design versatility
- Preserving the quality of the most sensitive products
- Ability of LDPE grades to be sterilised including autoclaving, EtO and gamma-radiation (up to 35Kgy)
- Offering much more than a product, offering you solutions
About us

INEOS is one of the world’s largest chemical companies, founded in 1998. INEOS Olefins & Polymers Europe is a leading producer of olefins and polyolefins.

**INEOS Olefins & Polymers Europe** offers a full range of high value polyolefins solutions for market applications such as food and industrial packaging, pipe and automotive through dedicated sales, and technical service teams.

INEOS is a safe and environmentally responsible company. We are engaged in developing our sustainable agenda to improve our operations and to implement sustainable solutions for our customers. This includes products that offer lightweighting, energy efficiency, durability (extended lifetime) or conservation of resources. We care.

EXCLUSION OF LIABILITY: The information contained in this brochure, as at the date of publication, is accurate to the best knowledge and belief of INEOS Europe AG and its affiliates («INEOS») and any further information or advice provided by INEOS relating to INEOS or third party materials is also given in good faith. INEOS makes no representations or warranties, express or implied, regarding the completeness, quality or accuracy of this or any other information and any decisions you make based on the information contained in this brochure or otherwise provided by INEOS, including as to the suitability or fitness of materials for a particular purpose, are your sole responsibility. The information contained here is subject to change, and your INEOS representative will be happy to help in providing you with the latest version of this information. Please otherwise note that we advise you regularly check the validity of the information you may have already downloaded from our website. Except as required by mandatory law or as expressly provided in INEOS’s standard terms and conditions of sale, INEOS accepts no liability whatsoever arising from the use of information supplied by this brochure or otherwise, or from the application, adaptation or processing of the products described herein, the use of other materials in lieu of INEOS materials or the use of INEOS materials in conjunction with such other materials. Rigidex®, Eltex®, Eltex P®, Eltex PF®, Rigidex P®, Innovene, INEOS and the breakthrough mark are all trademarks of the INEOS group, used with its permission, and are registered in a number of countries.

© Photos: archive, istockphoto.com