### Standard Chamber Filter Plates and Special Sizes with Tolerances according to DIN 7129

**Properties (guide-line)**

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Value</th>
<th>GB</th>
<th>DIN</th>
<th>EN</th>
<th>JIS</th>
<th>IS</th>
<th>BS</th>
<th>API</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density @ 20°C</td>
<td>1182 g/m³</td>
<td>0.933</td>
<td>0.900</td>
<td>0.900</td>
<td>1.78</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water absorption @ 20°C</td>
<td>1183 g/m³</td>
<td>0.934</td>
<td>0.900</td>
<td>0.900</td>
<td>1.79</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Young's Modulus (E)</td>
<td>100 GPa</td>
<td>1.20</td>
<td>1.25</td>
<td>1.25</td>
<td>2.20</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>207 N/mm²</td>
<td>207</td>
<td>207</td>
<td>207</td>
<td>207</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Elongation at Break</td>
<td>207 %</td>
<td>9.1</td>
<td>12.14</td>
<td>12.17</td>
<td>40</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impact Strength</td>
<td>207 N/mm²</td>
<td>12</td>
<td>7.70</td>
<td>30</td>
<td>8.14</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Abrasion Resistance</td>
<td>207 g/m²</td>
<td>3.9</td>
<td>3.9</td>
<td>3.9</td>
<td>3.9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thermal conductivity</td>
<td>207 W/mK</td>
<td>0.47</td>
<td>0.22</td>
<td>0.33</td>
<td>0.52</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density @ 20°C</td>
<td>207 g/m³</td>
<td>0.923</td>
<td>0.900</td>
<td>0.900</td>
<td>1.77</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Chemical Resistance**

<table>
<thead>
<tr>
<th>Acid</th>
<th>Alkali</th>
<th>Oxidation</th>
<th>Chlorine</th>
<th>Alcohol</th>
<th>Aldehyde</th>
<th>Ketones</th>
<th>Ethers</th>
<th>Amines</th>
<th>Alcohols</th>
</tr>
</thead>
<tbody>
<tr>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
<td>+</td>
</tr>
</tbody>
</table>

**Chamber Filter Plates**

- World-wide successful in operation
- For manufacturing of standard and customised filter elements to DIN 7129 are on highest technical level.
- For use in the leading manufacturers of microporous filter elements from thermoplastics and other materials, which are accessibly used worldwide.

**JVK** offers above 45 years of technical standard and Know-how experience in the field of the international aspects, as well as engineering and processing to manufacture filter elements.

**JVK Production Facilities**

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JVK Chamber Filter Plates

JVK Chamber Filter Plates and Filter Elements have been well proved in all industrial fields since 1962. JVK has influenced all major developments in the filtration field of solid-liquid separation with new designs and ideas. JVK produces chamber filter plates for filtration equipment in accordance to DIN standards. JVK chamber filter plates are successful worldwide due to their high quality standards and the continuous developments.

APPLICATION

WASTE WATERS / SEWAGE PLANTS
- Waste water treatment and
- Wastewater perfection for problem water
dewatering and decontamination of industrial and municipal waste water,
sewage from gasholders, paper, leather and laser waste water,
grounds of wood and stone,
cold and hot suspensions from flotation processes nutriment plants, of herbage
methane hydrazine wands (hydrazine)
drilling mud of oil rigs.

CHEMISTRY
- Manufacturing of mineral pigments,
- Organic dyes and titanium dioxide,
- Production of phosphor compounds and formers during
  the production of welding, welding and chemical agents,
  chemical intermediate products and filters e.g.
  lead, aluminium oxide, shielded clay etc.
  chlorine electrolysis, filtration of lime to produce
  chlorine, sodium hydroxide, zeolite, silica etc.

PHARMACEUTICALS
- Extraction and washing of intermediate products with distillation
  at temperatures up to 180 °C
- Filtration of blood plasma, etc.

BIOTECHNOLOGY
- Filtration of fermentation and other substances, which
  may interest in contact with bacteria.

FOOD
- Production of soup, soup flours, rice noodles, sugar, vegetable oil, palm oil, burl juice, wine, yeast, starch, gelatine, biona-
  paper etc.

CERAMICS
- Devitring of assid, clay, clay porcelain and ceramic tiles

METALLURGY
- Filtration of metallic self solutions serving as first step of electrolysis
  when refining nickel, copper, aluminum, gold and uranium in
  pyrometallurgy, electrolytic refining of metals reprocessing of batteries

PAPER INDUSTRY
- Recovery of water and fines etc.

SPECIAL DESIGNS
- Special base and design up to ca. 3000 x 3000 mm according to customer requirements are possible to be developed and manufactured.
- For the waste water filtration with polymer conditioning plates with extremely high Basic outlet are available.
- For temperatures higher than 150°C the filter of
  organic silicium are recommended in addition to polyamid plates for plate material.

Diagram: Chamber Filter Plates

Plate and Frame 630 x 630 mm
CGE Plate 630 x 630 mm gasketed
800 x 800 mm
800 x 800 mm
1200 x 1200 mm

JVK Chamber Filter Plate for Luka Filter Press
1500 x 1500 mm
JVK Chamber Filter Plate for SMA Filter Press
1200 x 1440 mm
2000 x 2000 mm
2140 x 2150 mm
1500 x 2000 mm

Filter Press with Chamber Filter Plate 1057 x 1057 mm

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JVK SERVICE

Our service team will support you at installation of the JVK Chamber Filter Plates:

- Development for special application
- Calculations
- Efficiency tests on JVK or customer site possible
- Process optimization
- Commissioning

The designs of JVK products are worldwide protected by patents and trademark rights.

RELY ON THE EXPERTS IN FILTRATION

Certification: DIN EN ISO 2001: 9001
JVK Chamber Group
Certificate Registration No. 01 100 041 308