METALURE® Quantum –
Premium quality pigment concentrates for mirror-like printing applications
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METALURE® Quantum products are highly brilliant, non-leafing Physical Vapor Deposition (PVD) metallic pigments. These extremely thin aluminum flakes are produced in a special process and are also known as Vacuum Metalized Pigments (VMP).

METALURE® Quantum pigment concentrates are recommended for a wide variety of printing applications such as flexo, gravure and screen printing inks and can be formulated to achieve effects similar to those produced with metalized substrates and foils.

METALURE® Quantum brand signifies the highest quality pigments in the ECKART PVD portfolio offering the following benefits:

- Highest gloss: up to 50 units glossier than existing METALURE® products, measured in both the 20° and 60° angles
- Reduced haze for a brighter more chrome-like appearance
- Color shift in all angles to the customer preferred darker, more bluish shade
- Lowest sieve residue to minimize film formation defects
- Improved adhesion to all substrates used in target applications

### METALURE® Quantum Type

<table>
<thead>
<tr>
<th>Type</th>
<th>Solid content (%)</th>
<th>D10 [µm]</th>
<th>D50 [µm]</th>
<th>D90 [µm]</th>
<th>Solvent</th>
<th>Shelf life</th>
</tr>
</thead>
<tbody>
<tr>
<td>210100 MA</td>
<td>9.95 – 10.15</td>
<td>3.00 – 6.00</td>
<td>9.50 – 12.00</td>
<td>&lt;= 25.00</td>
<td>methoxy propyl acetate</td>
<td>24 months</td>
</tr>
<tr>
<td>210160 MA</td>
<td>9.95 – 10.15</td>
<td>6.00 – 10.00</td>
<td>15.50 – 16.50</td>
<td>&lt;= 36.00</td>
<td>methoxy propyl acetate</td>
<td>24 months</td>
</tr>
<tr>
<td>510105 BG</td>
<td>9.95 – 10.15</td>
<td>3.00 – 6.00</td>
<td>9.50 – 12.00</td>
<td>&lt;= 25.00</td>
<td>butyl glycol</td>
<td>24 months</td>
</tr>
<tr>
<td>510105 AE</td>
<td>9.95 – 10.15</td>
<td>3.00 – 6.00</td>
<td>9.50 – 12.00</td>
<td>&lt;= 25.00</td>
<td>ethyl acetate</td>
<td>24 months</td>
</tr>
<tr>
<td>515075 IA</td>
<td>14.95 – 15.15</td>
<td>2.50 – 4.50</td>
<td>6.50 – 8.00</td>
<td>&lt;= 18.00</td>
<td>iso-propyl acetate</td>
<td>24 months</td>
</tr>
<tr>
<td>610073 NP</td>
<td>9.95 – 10.15</td>
<td>2.00 – 5.00</td>
<td>5.50 – 7.50</td>
<td>&lt;= 15.00</td>
<td>n-propyl acetate</td>
<td>24 months</td>
</tr>
<tr>
<td>610103 AE</td>
<td>9.95 – 10.15</td>
<td>3.00 – 6.00</td>
<td>9.50 – 12.00</td>
<td>&lt;= 36.00</td>
<td>ethyl acetate</td>
<td>24 months</td>
</tr>
<tr>
<td>710110 AE</td>
<td>9.95 – 10.15</td>
<td>4.00 – 6.00</td>
<td>10.50 – 11.50</td>
<td>&lt;= 25.00</td>
<td>ethyl acetate</td>
<td>24 months</td>
</tr>
</tbody>
</table>

### METALURE® Quantum color range

- METALURE® Quantum 210100MA
- METALURE® Quantum 210160MA
- METALURE® Quantum 510105BG & 510575IA
- METALURE® Quantum 610103AE & 610073NP
- METALURE® Quantum 710110AE

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