Thermographic paint for high temperature applications

HERP-HT-MWIR-BK-11

**Main features:**
- high emissivity paint
- high mechanical resistance
- opaque
- permanent paint for long-term use
- suitable for uncooled infrared cameras
- resistant to high temperatures up to 1000 °C
- suitable for application in electrical equipment (very low conductivity)
- suitable for industrial furnaces for material temperature treatment, machining of metal parts, heat resistant building materials for high temperatures

**Ingredients:**
- propane, butane, hydrocarbons, isobutane, Kohlenwasserstoffe, C₆, Isoalkane, ethylbenzene, butan-1-ol, cyclohexane

**Contents:**
- 400 ml

**Colour**
- black

**Thermal conductivity:**
- 0.52 W/mK (100 °C)
- 0.50 W/mK (300 °C)
- 0.67 W/mK (500 °C)
- 2.05 W/mK (700 °C)

**Other features:**
- coating thickness 150 μm (according to recommended application)
- coating roughness Ra = 3.5 μm, Rz = 25 μm

**Packing:**
- 1 pc minimum

**Optical properties**
- transmissivity to 1.2 %

**Dependence of emissivity on the angle**
- for bolometric cameras use the emissivity according to the viewing angle:

<table>
<thead>
<tr>
<th>Angle (°)</th>
<th>5</th>
<th>10</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>45</th>
<th>50</th>
<th>60</th>
<th>70</th>
<th>80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emisivita</td>
<td>0.840</td>
<td>0.839</td>
<td>0.838</td>
<td>0.834</td>
<td>0.829</td>
<td>0.824</td>
<td>0.818</td>
<td>0.800</td>
<td>0.764</td>
<td>0.664</td>
</tr>
</tbody>
</table>

Dates for 1 000 °C, other temperatures are available on the web.