

# 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:

Angle (°)	5	10	20	30	40	45	50	60	70	80
Emissivity	0.840	0.839	0.838	0.834	0.829	0.824	0.818	0.800	0.764	0.664

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



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