

Phoenix **Thermal** Supply

PTSHEAT Hotrod cartridge heaters are available with a standard 304SS sheath. In addition, 316 stainless steel and Incoloy 800 are optional. 304SS is excellent for most applications. However for extremely high temperature applications, Incoloy 800 is the better choice and for some corrosive environments 316SS is recommended.

Use the chart below to help in selecting a sheath material.

Product being heated: **Air to 1200 °F, 304SS (E), 316SS (E), INCOLOY (E)**

Product being heated: **Air to 1400°F, 304SS (G), 316SS (G), INCOLOY (E)**

Product being heated: **Air to 1600°F, 304SS (F), 316SS (F), INCOLOY (G)**

Product being heated: **Acetic Acid, 304SS (F), 316SS (G), INCOLOY (F), MAX W/IN2: 40, MAX TEMP: 180°F**

Product being heated: **Acetone, 304SS (E), 316SS (E), INCOLOY (E), MAX W/IN2: 20, MAX TEMP: 130°F**

Product being heated: **Alcohol, 304SS (F), 316SS (E), INCOLOY (E), MAX W/IN2: 25, MAX TEMP: 212°F**

Product being heated: **Asphalt, 304SS (E), 316SS (E), INCOLOY (E), MAX W/IN2: 4-10, MAX TEMP: 200-500°F**

Product being heated: **Caustic Soda, 10%; 304SS (E), 316SS (E), INCOLOY (E), MAX W/IN2: 100, MAX TEMP: 210°F**

Product being heated: **Degreasing Solution, 304SS (G), 316SS (E), INCOLOY (E), MAX W/IN2: 40, MAX TEMP: 275°F**

Product being heated: **Electroplating Bath, Cadmium ; 304SS (E), 316SS (E), INCOLOY (E), MAX W/IN2: 100, MAX TEMP 180°F**

Product being heated: **Electroplating Bath, Copper; 304SS (E), 316SS (E), INCOLOY (E), MAX W/IN2: 100, MAX TEMP: 180°F**

Product being heated: **Ethylene Glycol; 304SS (F), 316SS (F), INCOLOY (F), MAX W/IN2: 30**

Product being heated: **Freon; 304SS (E), 316SS (E), INCOLOY (E), MAX W/IN2: 2-5, MAX TEMP: 300°F**

Product being heated: **Glycerin; 304SS (E), 316SS (E), INCOLOY (E), MAX W/IN2: 10, MAX TEMP: 500°F**

Product being heated: **Kerosene; 304SS (E), 316SS (E), INCOLOY (E), MAX W/IN2: 25-30**

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Product being heated: **Molasses**; 304SS (E), 316SS (E), INCOLOY (E), MAX W/IN2: 5,
MAX TEMP: 100°F

Product being heated: **Nitric Acid (30% max)**; 304SS (F), 316SS (F), INCOLOY (NR),
MAX W/IN2: 20, MAX TEMP: 167°F

Product being heated: **Oil (SAE 30)**; 304SS (E), 316SS (E), INCOLOY (E), MAX
W/IN2: 20, MAX TEMP: 250°F

Product being heated: **Oil (SAE 50)**; 304SS (E), 316SS (E), INCOLOY (E), MAX
W/IN2: 10-15, MAX TEMP: 250°F

Product being heated: **Oil, Vegetable or Mineral**; 304SS (E), 316SS (E),
INCOLOY (E), MAX W/IN2: 30, MAX TEMP: 400°F

Product being heated: **Paraffin or Wax**; 304SS (E), 316SS (E), INCOLOY (E), MAX
W/IN2: 16

Product being heated: **Steam @ 300°F**, 304SS (E), 316SS (E), INCOLOY (E), MAX
W/IN2: 30, MAX TEMP: 300°F

Product being heated: **Steam @ 500°F**, 304SS (E), 316SS (E), INCOLOY (E), MAX
W/IN2: 25, MAX TEMP: 500°F

Product being heated: **Trichlorethylene**, 304SS (F), 316SS (F), INCOLOY (F), MAX
W/IN2: 30, MAX TEMP: 150°F

Product being heated: **Water, Distilled**; 304SS (E), 316SS (E), INCOLOY (E), MAX
W/IN2: 300, MAX TEMP: 212°F

Product being heated: **Water, Tap**; 304SS (F), 316SS (E), INCOLOY (E), MAX
W/IN2: 300, MAX TEMP: 212°F

E=Excellent, G=Good, F=Fair, NR=Not Recommended

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