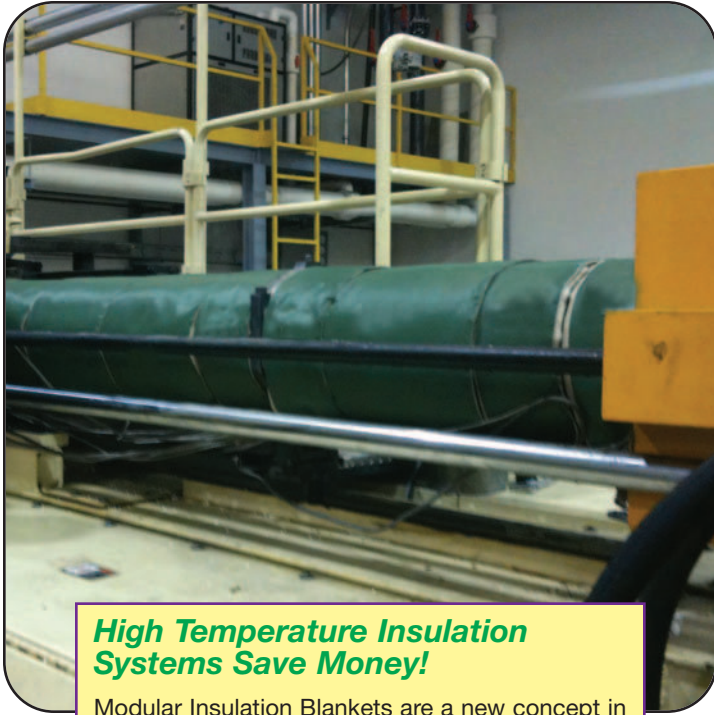
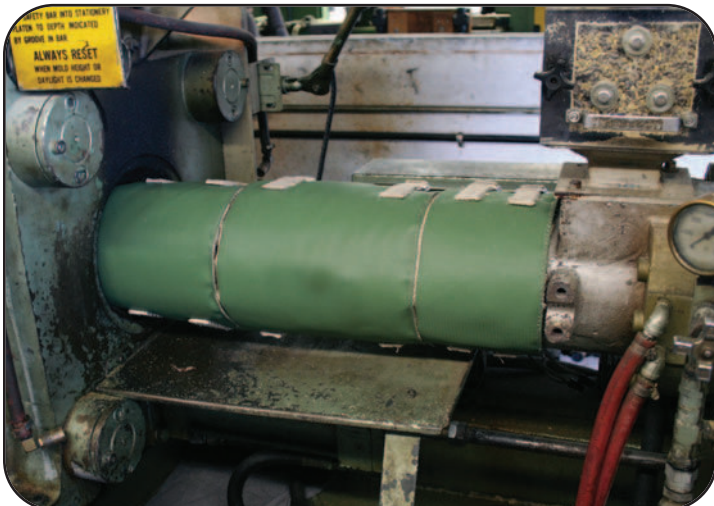
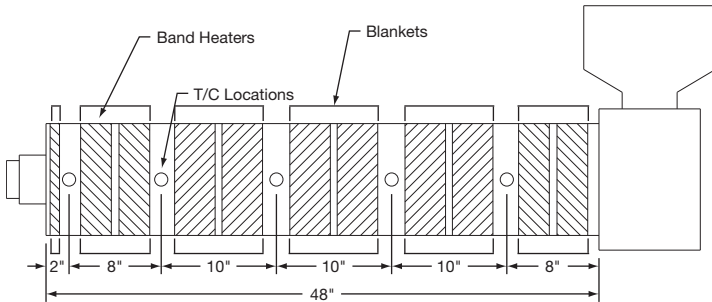


Insulation Blankets



High Temperature Insulation Systems Save Money!

Modular Insulation Blankets are a new concept in insulation systems that will allow you to insulate most typical plastic molding machines with ease.



Tempco offers a line of Modular Insulating Blankets designed to contain the heat generated by industrial elements in various applications, thereby conserving energy and cooling the environment.

Simply measure the outside diameter of your heater bands and the width between thermocouples. The distance between thermocouples is critical because the modular blankets should be sized to fit between them. To insulate an 8" width, you would utilize two blankets, for instance, a 2" and 6" wide blanket.

Example (refer to the drawing)

- The length of the plastic injection machine barrel to insulate is 48".
- From the hopper end, the thermocouple breaks needed are at 8", 18", 28", 38", 46" and 48". This would yield insulation distances of 8", 10", 10", 10", 8", and 2" between the thermocouples. For the (two) 8" distances, use two 4" blankets each. For the (three) 10" distances use one 4" and one 6" blanket each. For the 2" distance, use one 2" blanket.

To summarize, the total requirement is: one 2" blanket seven 4" blankets three 6" blankets

Typical Applications

- Injection Molding
- Extrusion Barrels and Blow Molding
- Pre-Heaters
- Hoppers and Driers
- Hot Oil Lines
- Manifolds
- Melt Pipe Dies and Adapters

SPECIFICATIONS

Hot Face/Inside Fabric

- Material:** Silica Fabric with Vermiculite
- Thickness:** .042"
- Maximum Temperature:** 1800°F (982°C) continuous

Cold Face/Outside Fabric

- Material:** PTFE-Impregnated Fiberglass Cloth
- Thickness:** .014"
- Maximum Temperature:** 550°F (288°C) continuous

Insulation

- Material:** Ceramic Fiber
- Thickness:** 1"
- Maximum Temperature:** 2300°F (1260°C)

Straps

- Material:** PTFE-Impregnated Fiberglass Cloth

Buckles

- Material:** Nickel-Plated steel wire with loose roller to allow for ease of tightening of straps



Note: When using insulation blankets it is recommended to derate the wattage of the heater bands by 20 to 25% to extend heater life and further reduce power consumption.

Energy Savings Using Insulation Blankets

Injection Molding Barrel Estimated Return on Investment

| Estimated Initial Tonnage | Avg. KWh Investment | Avg. KWh Uninsulated | Payback Insulated | Estimated 3 Year Period - months | Savings |
|---------------------------|---------------------|----------------------|-------------------|----------------------------------|------------|
| 150 | \$300 | 1.52 | 0.52 | 8.54 | \$1,391.81 |
| 300 | 660 | 3.00 | 2.05 | 10.69 | 2,223.72 |
| 500 | 1,100 | 7.65 | 6.02 | 10.38 | 3,815.28 |
| 850 | 1,870 | 9.33 | 6.79 | 11.32 | 5,945.04 |
| 1000 | 2,200 | 11.35 | 8.12 | 10.48 | 7,560.00 |
| 1500 | 3,300 | 13.54 | 9.22 | 11.75 | 10,111.32 |

NOTE: The above information is to be used for comparisons only. Actual results in your plant on your injection molding machines may differ.



Standard (Non-Stock) Insulation Blankets

| Inner Diameter | Width | Part Number | |
|----------------|-------|----------------------|----------------------|
| | | With 1" Overlap Flap | Without Overlap Flap |
| 4" | 2" | BLK00402 | BLK10402 |
| | 4" | BLK00404 | BLK10404 |
| | 6" | BLK00406 | BLK10406 |
| 5" | 2" | BLK00502 | BLK10502 |
| | 4" | BLK00504 | BLK10504 |
| | 6" | BLK00506 | BLK10506 |
| 6" | 2" | BLK00602 | BLK10602 |
| | 4" | BLK00604 | BLK10604 |
| | 6" | BLK00606 | BLK10606 |
| 7" | 2" | BLK00702 | BLK10702 |
| | 4" | BLK00704 | BLK10704 |
| | 6" | BLK00706 | BLK10706 |
| 8" | 2" | BLK00802 | BLK10802 |
| | 4" | BLK00804 | BLK10804 |
| | 6" | BLK00806 | BLK10806 |
| 9" | 2" | BLK00902 | BLK10902 |
| | 4" | BLK00904 | BLK10904 |
| | 6" | BLK00906 | BLK10906 |
| 10" | 2" | BLK01002 | BLK11002 |
| | 4" | BLK01004 | BLK11004 |
| | 6" | BLK01006 | BLK11006 |
| 11" | 2" | BLK01102 | BLK11102 |
| | 4" | BLK01104 | BLK11104 |
| | 6" | BLK01106 | BLK11106 |
| 12" | 2" | BLK01202 | BLK11202 |
| | 4" | BLK01204 | BLK11204 |
| | 6" | BLK01206 | BLK11206 |

Ordering Information

Standard — After determining the diameter and width of the insulation blankets required, select the **Part Number** from the chart above that matches your requirements.

Custom Engineered/Manufactured — Custom Insulation Blankets can also be designed for your application in circumferential or flat applications. Please submit to Tempco your drawing or sketch to quote.

Standard lead time is Stock to 4 weeks.

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.