



Coverflex Manufacturing, Inc.
Removable Insulation Blanket Specifications:
Applications Below 500°F/260°C

1.0 GENERAL INFORMATION

- 1.1 Removable Insulation Blanket is the product name (as fabricated by Coverflex Mfg. Inc.) for a Custom Designed Reusable Insulation System.
- 1.2 Typical Applications for Removable Insulation Blankets include flanges, valves, pumps, instrumentation, manifolds, piping, exhausts, man ways, extruders, turbines, vessels and tanks.
- 1.3 All material specification are based on Manufactures Data Sheets and is provided without any liability to Coverflex Manufacturing, Inc.

2.0 DESIGN

- 2.1 Removable Insulation Blankets are custom designed for each individual item.
- 2.2 Material specifications are either specified by the purchaser or Coverflex Mfg. will determine material specifications based on application and temperature rating.
- 2.3 A close contour fit is essential for proper thermal performance and neat appearance. Depending on size or weight the insulation blanket, may required multiple piece construction.
- 2.4 All fabrication drawings and specification are permanently maintained on file by Coverflex Mfg. for replacement or reoccurring orders.

3.0 MATERIAL SPECIFICATION

- 3.1 HOT SIDE: Silicone Impregnated Fiberglass Fabric 17.5 Oz./Sq. Yd. Estimated Maximum Temperature: 500°F/260°C
- 3.2 INSULATION FILLER: Glass mat, type E needled fiber. 1" Thick, 9-11 LB/CF. Estimated Maximum Temperature: 1200°F/648°C
- 3.3 COLD SIDE: Silicone Impregnated Fiberglass Fabric 17.5 Oz./Sq. Yd. Estimated Maximum Temperature: 500°F/260°C
- 3.4 SEWING THREAD: PTFE/Teflon Impregnated Fiberglass Sewing Thread, .018 inches diameter. Estimated Maximum Temperature: 600°F/315°C
- 3.5 SECUREMENT: 1" 304 Stainless Steel D-Ring and 1" Silicone Impregnated Fiberglass Fabric Straps with 1" HI AIR® hook and loop for securement. Estimated Maximum Temperature: 350°F/176°C. Kevlar/Fiberglass knitted rope, 1/8" diameter. Estimated Maximum Temperature: 380°F/193°C.
- 3.6 IDENTIFICATION TAG: 304 Stainless Steel, 1.5" x 3.5".



4.0 METHOD OF CONSTRUCTION

- 4.1 Sewn Construction is the method used for this application. Hog ring Construction is not applicable.
- 4.2 Double lock stitch with a minimum 6 to 8 stitches per inch. Blankets shall be sewn with two parallel rows using thread in section 3.4.
- 4.3 Materials in sections 3.1, 3.3 and 3.4 are sewn "inside out" and turned "right side out" before filling with insulation. All seams are inside stitches with the exception of the final closing seam will be an outside stitch. Insulation fillers 1-1/2" or thicker will have a gusset, to ensure the full thickness throughout.
- 4.4 Longitudinal closers use a minimum 2" overlapping flap on the adjoining blanket section with a full length hook and loop strip oriented securement. All circumferential blankets shall use D-rings and Straps with hook & loop sewn on the tips. This application specified a knitted rope, in addition to Coverflex Mfg. standard securement methods.
- 4.5 Removable Blanket will have a permanently attached 1.5" x 3.5" SS Tag with embossed application or project information.