

KAtherm T-87 Data Self Lubricating Liner Material

1. Characteristics:

- 1.1. Nominal liner thickness: .010 to .015 in.(.25 to .38 mm), Max .060 in.(1.52 mm)
- 1.2. Operating temperature range : -100° F to +500°F (-73°C to +260°C)
- 1.3. Coefficient of friction range: .02 to .11, depending upon temperature, pressure, and velocity.
- 1.4. Compatible backing substrate materials: stainless steel, titanium, aluminum, high nickel alloys, composites.
- 1.5. Surface speeds up to 30 fpm (9 m/min)

2. Physical Properties:

2.1.	Specific Gravity	1.366
2.2.	Density	1.37 gm/cc
2.3.	Hardness	Rockwell M 80/90
0.4	Canada na a ai a na Marakukua	105 000: (075 MD

2.4. Compression Modulus 125,000 psi (875 MPa) (.012 in. (.305 mm) liner on CRES)

3. Typical Load Carrying Capabilities:

3.1.	Static Ultimate	45,000 psi (310 MPa)
3.2.	Static Limit	30,000 psi (207 MPa)
3.3.	Dynamic (max. @ 500°F)	20,000 psi (138 MPa)
3.4.	Wear @ 500°F (260°C)	Less than .005" (0.127 mm) at 20,000
		psi (138 MPa) ±25°, 20 cpm

4. Typical Applications:

4.1. Gas Turbine Engine variable stator vanes bushings; sync ring pads; engine control bearings, cam followers, and linkage; thrust reverser bearings, cam followers, and high temperature industrial bearings, cam followers and linkages. Also high speed oscillating applications on helicopters such as main/tail rotor pitch change, pitch link, and scissors link bearings.

