

# Application Case Story

## Meldin® 7000 Series

**APPLICATION:**

Aircraft Air Conditioning System

**MATERIAL:**

Meldin® 7022

**PART DEFINITION:**

Labyrinth Control Ring

**TECHNICAL DATA:**

**TYPICAL DIMENSIONS:**

2.56" OD x 2.2" ID x .27" Length  
(65mm x 56mm x 7mm)

**COUNTERFACE:** Aluminum

**LUBRICATION OR MEDIA:**

Air from Jet Engine

**WORKING TEMPERATURE:**

Ranges from -65°F to 572°F  
(-54°C to 300°C)

**FEATURES / BENEFITS:**

- Can withstand high bleed air temperatures
- Low thermal expansion allows small clearances
- Tight tolerances can be machined easily
- Compatible with common aerospace fluids

**Meldin® 7022** has the lowest coefficient of thermal expansion (CTE) in the **Meldin® 7000 Series**, making it ideally suited for applications that require tight clearances over a wide temperature range. The CTE comes very close to aluminum, making it ideally suited for leakage control in aerospace applications.



**MELDIN® 7022**  
**LABYRINTH CONTROL RING**

**Saint-Gobain Performance Plastics**

**North America:** 1-800-223-4966 Bristol, RI, USA

**Europe:** +32 3 458 28 28 Kontich, Belgium

**Asia:** +81 33 26 30 285 Tokyo, Japan

**Email:** [sgppl.marketing@saint-gobain.com](mailto:sgppl.marketing@saint-gobain.com)

**Website:** [www.rulon-meldin.com](http://www.rulon-meldin.com)

ACS-456-PDF-0905-SGCS

Meldin® is a registered trademark.  
©2005 Saint-Gobain Performance Plastics

