

Fenlon Asta: Guaranteed Help in Exceeding 100,000 Cycles.

Fenlon™ Asta

Your aeronautics customers are demanding more. They want their aircraft to go faster and have greater payload capacity. That puts greater pressure on aeronautics suppliers like you. Your customers need higher performance from your bearings. They'll need to have greater load-bearing capacity – up to 500 MPa. They'll have to withstand wider temperature extremes, up to 482+ degrees. And, as per AS81820 Type A, they'll need to be capable of reaching 100,000 cycles, helping lower maintenance costs.

In short, your bearing products will test the limits of time and space. Go beyond where they've ever gone before and endure stresses and conditions that are totally new. To meet these demands, you need bearing liners that are not just cutting edge. But something more. You need liners optimized for bearing capacity. Withstanding 250,000+ cycles, with the tightest tolerances possible.

We developed our Fenlon Asta liners in a three-year, cross-disciplinary effort, aimed solely at creating liners that meet or exceed the 100,000-cycle requirements of AS81820 Type A. They are just the latest innovation from the world-class materials engineering at Fenner. We lead the industry in creating self-lubricating fabrics for demanding applications. And offer a winning combination of advantages for bearing manufacturers:

- **Applications expertise.** We have a wide range of expertise in needs assessment and product design and development
- **High-performance designs.** We worked with customers, third-party testing facilities, and our parent company, Michelin, to develop Fenlon Asta, then added state-of-the-art testing to ensure your bearings meet the AS81820A standard.
- **Complete control of the process.** As one of the most vertical-oriented companies in the industry, Fenner has a global supply chain that ensures we have complete control of the bearing liner manufacturing process. With the widest range of yarns, fabrics, and resins, as well as precision coating capability. [Take the video tour of the process at fennerprecision.com.](https://www.fennerprecision.com)

In actual customer testing, new Fenlon Asta didn't simply reach the 100,000-cycle requirement of AS81820 Type A, it blew it away. And it didn't stop at 150,000, or even 200,000 – it was still going strong at 250,000 cycles when the tests ended. The customer report concluded, *“Once the bearings reached 200,000 cycles, practically zero wear was observed.”*

Liner	Cycles Achieved at 0.005" Wear				Standard Deviation
	#1	2#	3#	Average	
Gold 226, new	126,193	125,281	119,307	123,594	3,054
Gold 227, new	233,847	250,000	241,375	241,741	6,600
Liner 2110, existing	92,610	135,577	109,333	112,507	17,684

Actual data from the customer's testing of the new Fenlon Asta bearing liner, which was Gold-227.

Why? Because we didn't simply focus on the performance of our products. **We obsessed on how we would enhance yours.**

Our three-year development process is all documented in the Fenlon Asta White Paper – [download](#) it on [fennerprecision.com](https://www.fennerprecision.com) to learn more!

Tell us about your design and let us fabricate a Fenlon Asta liner to help you meet the AS81820 Type A standard and last at least 100,000 cycles. We're here to work with you to make sure it does. [Begin the process today by telling us about your application.](#)