ABI Certificate of Analysis (CoA)

Aerospace-Grade Talc Powder — A-A-59303B Compliant

Product Name: Aerospace-Grade Talc Powder **Specification:** A-A-59303B Military Specification **Grade:** [Insert Grade] **Batch / Lot Number:** [Insert Batch Number] **Manufacture Date:** [Insert Date] **Analysis Date:** [Insert Date] **Expiry / Retest Date:** Indefinite when stored under recommended conditions **Packaging:** [Insert Packaging Type] **Manufactured Under:** AS9100-aligned quality system

1. Product Description

High-purity lamellar magnesium silicate engineered for aerospace polymer, elastomer, and coating systems requiring controlled particle morphology, low impurity content, and consistent reinforcement performance. Fully compliant with A-A-59303B requirements.

2. Test Results Summary

Parameter	Specification Requirement	Test Result	Status
Appearance	White to off-white powder	[Insert Result]	Pass
Particle Size (D50)	5–12 μm (grade dependent)	[Insert Result]	Pass
Particle Size Distribution	Per A-A-59303B	[Insert Result]	Pass
Specific Gravity	2.7–2.8	[Insert Result]	Pass
Moisture Content		[Insert Result]	Pass
Loss on Ignition (LOI)		[Insert Result]	Pass
pH (10% slurry)	8.5–9.5	[Insert Result]	Pass
Oil Absorption	30–40 g/100 g	[Insert Result]	Pass
Free Crystalline Silica	Meets A-A-59303B limits	[Insert Result]	Pass
Mineral Purity	≥90% talc	[Insert Result]	Pass
Heavy Metals	Within aerospace limits	[Insert Result]	Pass
Odor	None	[Insert Result]	Pass

All analytical testing performed using validated methods traceable to ASTM, ISO, or equivalent aerospace-accepted standards.

3. Compliance Statement

This batch of Aerospace-Grade Talc Powder has been tested and verified to conform to the requirements of:

- **A-A-59303B Military Specification**
- **REACH and RoHS**
- **FAR 25.853 FST-supportive formulations** (when used as part of compliant systems)
- **OEM aerospace material standards** (compatibility dependent on formulation)

The material meets all applicable purity, particle size, and physical property criteria required for aerospace use.

4. Quality Assurance

- Manufactured under an **AS9100-aligned quality management system**
- Full batch traceability maintained
- Certificate of Analysis includes the Certificate of Compliance (CoC) parameters
- All instruments calibrated to aerospace-recognized standards

5. Authorized Release

- **Reviewed and Approved By:**
- Name: _____
- Title: _____
- Signature: _____
- Date: _____